

**Staff Report**

**Sediment Characterization**

**for the**

**2001 Sediment Removal Project**

February 2002

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STAFF REPORT  
  
SEDIMENT CHARACTERIZATION  
  
FOR THE  
  
2001 SEDIMENT REMOVAL PROJECT  
  
SANTA CLARA VALLEY WATER DISTRICT

Prepared by

Lisa Fleming  
Assistant Engineer

Under the Direction of

Beau Goldie, P.E., R.E.A.  
Assistant Operating Officer  
Countywide Watershed Management

February 6, 2002

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## TABLE OF CONTENTS

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	Page
INTRODUCTION .....	1
OBJECTIVES OF SEDIMENT CHARACTERIZATION .....	1
SAMPLING AND ANALYSIS .....	4
SEDIMENT SAMPLING PLAN .....	4
SAMPLE COLLECTION .....	4
SAMPLING LOCATIONS .....	4
SAMPLE ANALYSIS .....	4
CHAIN OF CUSTODY PROCEDURES .....	5
FIELD SOIL SAMPLING LOG .....	5
ANALYTICAL RESULTS .....	6
METALS .....	6
MERCURY .....	9
ORGANIC COMPOUNDS .....	9
Pesticides/Organophosphorous Compounds .....	9
Polychlorinated Biphenyls/Total Mercury .....	10
Solvents .....	10
Polynuclear Aromatic Hydrocarbons .....	11
MOISTURE CONTENT .....	11
TOTAL ORGANIC CARBON .....	12
SALINITY .....	12
PHYSICAL PARAMETERS .....	12
Grain Size Distribution .....	13
Atterberg Limits .....	13
PETROLEUM PRODUCTS .....	13
TOXICITY .....	14
pH .....	15
ASBESTOS .....	15

## TABLES

TABLE 1	
Sediment Removal Project Sites .....	3
TABLE 2	
High and Low Values of Total and Soluble Metals for Composite Samples .....	7
TABLE 3	
High and Low Values of Total and Soluble Metals for Continuous Core Samples .....	8

## **APPENDICES**

### **APPENDIX A**

Analytical Data

### **APPENDIX B**

Grain Size Distribution Graphs/Atterberg Limit Results

### **APPENDIX C**

Toxicity Results

### **APPENDIX D**

Asbestos Results



## **INTRODUCTION**

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The Sediment Characterization Report presents analytical results of tests performed on sediments, which were scheduled to be removed in accordance to the 2001 Sediment Removal Project. The purpose of sediment removal is to alleviate local flooding and to meet the requirements of the Federal Emergency Management Agency for flood protection.

In order to effectively manage the removal and disposal of the sediments, it is necessary to characterize the physical and chemical properties of the sediments. Under the 2001 Sediment Removal Project, approximately 90,310 cubic yards of sediment were planned to be removed from 17 creek sites. Table 1 outlines the names of creeks by district zones, locations, and approximate amount of sediment to be removed at each site.

It is anticipated that the large amount of data generated from this Sediment Characterization Plan will provide valuable information regarding the general nature of sediments in Santa Clara County and will reduce the quantity of sampling and analysis which is required for future sediment removal projects.

The only significant deviation from the 2000 Sediment Characterization Plan is the addition of herbicide sampling and site-specific sampling for Flint Debris Basin.

Sediment sampling activities for the 2001 Sediment Removal Project occurred during June 2001.

### **OBJECTIVES OF SEDIMENT CHARACTERIZATION**

Sediment characterization allows the Santa Clara Valley Water District (District) to (1) effectively plan for disposal of sediments, (2) assist with determining the best management practices to implement, and (3) efficiently monitor the water quality impacts from the sediment removal operation. The Sediment Characterization Plan is primarily designed to characterize sediment designated for removal (using continuous core and discrete sediment sampling method). It is not intended to be a full characterization of all the stream sediments.

There are four main reasons for characterizing the sediments, described as follows:

#### **Landfill Acceptance**

Landfills require materials to be characterized before they accept them for disposal or reuse at their site.

#### **Alternative Reuse Sites**

Alternative reuse sites generally consist of contractors using materials for construction. The contractors request characterization of the materials.

### **The Regional Water Quality Control Board**

The Regional Board has required characterization of the materials to determine if the proposed disposal method is acceptable. The Regional Board must ensure disposal of the material will not pose a threat to the waters of the state.

### **The Department of Fish and Game**

The Department of Fish and Game (DFG) requests the material be characterized to determine if they will adversely impact fish and wildlife. The removal operations may cause sediment to be resuspended and migrate downstream where it may have an impact on aquatic life. The DFG is interested in the toxicity of the sediments to fish and wildlife.

This sediment characterization follows the Santa Clara Valley Sediment Characterization Plan, dated June 2001. The Sediment characterization Plan was created to comply with the following documents/requirements:

- Regional Water Quality Control Board, San Francisco Bay Region Waste Discharge Requirements for the District's Sediment Removal Project aimed primarily at water quality protection.
- Santa Clara Valley Water District and California Department of Fish and Game Memorandum of Understanding for Routine Maintenance Activities in Improved Channels aimed primarily at protection of fish and wildlife.
- Landfill/Reuse-Specific Requirements.

The Sediment Characterization Plan was also designed to (1) provide data for evaluation of the feasibility of long-term disposal, reuse, and recycling opportunities for sediment generated by the District, and (2) provide a basis for the Self-Monitoring Program to determine whether additional water quality constituents should be monitored.

**TABLE 1**  
**2001 Sediment Removal Project Sites**

Site No.	Creek	Location	Type of Site	Water-shed	Estimated Sediment Volume (cy)	Estimated Quantity (tons) <sup>(a)</sup>
1	Adobe	At Highway 101, Palo Alto	Concrete	W	1,000	1,500
2	Berryessa	Milpitas Boulevard To Calaveras, Milpitas	Earthen	C	5,900	8,850
3	Berryessa	Cropley to Sierra Creek, San Jose	Earthen/Concrete	C	2,400	3,600
4	Berryessa	U/S and P/S Piedmont, San Jose	Earthen/Concrete	C	1,300	1,950
5	Calabazas	D/S Hwy. 101, Santa Clara/Sunnyvale	Earthen	W	30,000	45,000
6	Calera	U/S UPRR to Milpitas Boulevard, Milpitas	Concrete	C	600	900
7	Calera	U/S Escuela Parkway, Milpitas	Earthen	C	230	345
8	Canoas	Various locations, San Jose	Earthen/Concrete	G	1,900	2,850
9	Coyote	U/S Lower Penitencia Confluence, Milpitas	Earthen	C	150	225
10	Flint Debris Basin	U/S Mt. Pleasant Road, San Jose	Earthen	C	30,000	45,000
11	Guadalupe	U/S Tasman to Montague, San Jose/ Santa Clara	Earthen	G	10,000	15,000
12	Los Coches	D/S Interstate 680 to Dempsey, Milpitas	Earthen/Concrete	C	1,800	2,700
13	Matadero	U/S Highway 101 to Louis, Palo Alto	Earthen/Concrete	W	4,000	6,000
14	Randol	U/S Bret Harte, San Jose	Concrete	G	50	75
15	Ross	U/S Cherry, San Jose	Concrete	G	100	150
16	Rucker	D/S Guibal, Gilroy	Earthen	U/L	30	45
17	Sierra	D/S Mauna Kea, San Jose	Earthen	C	850	1,275

<sup>(A)</sup>Sediment volume in tons, assuming 1.5 tons/cy

Watersheds: W=Lower Peninsula/West Valley      G=Guadalupe      C=Coyote      U/L=Uvas/Llagas

## **SAMPLING AND ANALYSIS**

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### **SEDIMENT SAMPLING PLAN**

All sediment sampling and analysis was conducted in accordance with the District's Sediment Characterization Plan for the 2001 Sediment Removal Project. This plan was based on (1) the District's 2000 Sediment Characterization Plan approved by the Regional Board; (2) the results of the 1998, 1999, and 2000 Sediment Removal Projects and lessons learned meetings; and (3) meetings and discussions with the Regional Board, the DFG, and other interested parties.

In addition to characterizing the sediments based on statistical characterization method, the Sediment Characterization Plan incorporates a biased approach to characterize the areas with the highest potential to have pollutants. This biased sampling involves sediment sampling at potential "hot spot" locations, such as storm water outfalls and runoffs and sediment deposition areas where there is a potential to detect pollutants.

### **SAMPLE COLLECTION**

Samples were collected in June 2001. A total of 128 samples were collected.

Sampling activities performed by Air, Light, and Space Construction were coordinated by Ms. Kate Slama and Mr. Brett Calhoun.

### **SAMPLING LOCATIONS**

The location at which each sample was collected is presented in Table 1. Maps of sampling locations are available from Kate Slama. All sampling locations were selected in accordance with the methodology presented in the 2001 Sediment Characterization Plan. Documentation regarding the selection of sampling locations are contained within the Field Soil Sampling Logs.

Sample locations were determined by Ms. Kate Slama, Mr. Tim Bramer, Mr. Scott Katric, and Mr. Kenn Reiller, and were located by the three watershed field crews.

Each sample location was plotted using the Global Positioning System (GPS) by the sampling team. GPS data is stored electronically and can be retrieved by contacting the District's Land Surveying and Mapping Unit.

### **SAMPLE ANALYSIS**

All samples collected were submitted to Sequoia Analytical. Samples were composited by Sequoia Analytical in accordance with the compositing procedure described in the Sediment Characterization Plan.

All samples were analyzed by Sequoia Analytical, with the exception of the following: toxicity analyses were performed by Pacific EcoRisk; asbestos analyses were performed by R.J. Lee Group, Inc.; and sieve analyses were performed by Environmental Technical Services (ETS).

The analysis performed on each sample, as well as the rationale for selecting each analysis, is presented in the Sediment Characterization Plan.

Sample analysis results are presented in Appendix A.

## **CHAIN OF CUSTODY PROCEDURES**

Standard chain of custody procedures were used throughout the sampling collection procedures as described in the Sediment Characterization Plan. A chain of custody was prepared for all samples. Each individual who had responsibility for the samples was required to sign the chain of custody upon relinquishing the samples to another party. The receiving party taking custody of samples also signed the chain of custody form.

## **FIELD SOIL SAMPLING LOG**

A field soil sampling log was filled out for the samples collected at each location. The log contains the following information: date and time sample was taken, site location, responsible sample collector, sampling methods, sampling location, sampling depth, number of sampling containers, specific site conditions observed at the time of sample collection, analysis requested, and other information that describes the actual sampling event.

## **ANALYTICAL RESULTS**

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### **METALS**

Metals are naturally occurring elements, which are present in sediments and soils throughout the Santa Clara Valley. Historic mining activities have increased the concentration of metals in some watersheds. Metals may also be deposited in the stream by non-point source runoff.

Landfills commonly request that soils be analyzed for total concentrations of "Title 26 metals," which include antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc for a total of 17 metals.

Class III landfills may consider both the total and soluble levels of metals; therefore, it is advisable to test soil for both total and soluble levels of metals.

#### **Testing Performed**

All samples except the residual sediment samples were tested for total Title 26 metals by EPA Method 6010 and EPA 7000 series test methods.

All samples except the residual sediment samples were tested for soluble Title 26 metals by EPA Method 6010 and 7000 series and standard WET extraction method (citric acid).

#### **Summary of Analytical Results**

High and low values of total and soluble metals for continuous core samples are presented in Table 2.

High and low values of total and soluble metals for composite samples are presented in Table 3.

**TABLE 2**  
**High and Low Concentration Values of Total and Soluble Metals**  
**For Composite Samples**

Analyte	Total Metals mg/Kg		Soluble Metals ug/L	
	High Value	Low Value	High Value	Low Value
Antimony	1.80	1.70	ND	ND
Arsenic	13.00	ND	350.0	ND
Barium	160.00	55.00	12000.0	5000.0
Beryllium	ND	ND	ND	ND
Cadmium	0.80	ND	49.0	ND
Chromium	370.00	27.00	1800.0	68.0
Cobalt	29.00	7.00	1300.0	120.0
Copper	49.00	11.00	1600.0	ND
Lead	58.00	4.60	2500.0	ND
Molybdenum	ND	ND	ND	ND
Nickel	540.00	35.00	6300.0	240.0
Selenium	4.60	ND	ND	ND
Silver	ND	ND	ND	ND
Thallium	13.00	ND	870.0	ND
Vanadium	71.00	27.00	970.0	140.0
Zinc	160.00	33.00	11000.0	870.0

**TABLE 3**  
**High and Low Concentration Values of Total and Soluble Metals**  
**For Continuous Core Samples**

Analyte	Total Metals mg/Kg		Soluble Metals ug/L	
	High Value	Low Value	High Value	Low Value
Antimony	2.30	ND	ND	ND
Arsenic	13.00	3.70	2000.0	ND
Barium	170.00	52.00	20000.0	4400.0
Beryllium	ND	ND	ND	ND
Cadmium	0.93	ND	52.0	ND
Chromium	100.00	17.00	2300.0	ND
Cobalt	18.00	3.90	750.0	ND
Copper	61.00	7.60	1500.0	ND
Lead	65.00	ND	3300.0	ND
Molybdenum	ND	ND	ND	ND
Nickel	150.00	17.00	5000.0	160.0
Selenium	ND	ND	ND	ND
Silver	ND	ND	ND	ND
Thallium	9.90	ND	1200.0	ND
Vanadium	65.00	23.00	1100.0	ND
Zinc	150.00	33.00	9100.0	800.0



## **MERCURY—TOTAL MERCURY AND METHYL-MERCURY**

As a result of historic mining operations, mercury is a concern due to its presence in some watersheds. Many mercury mines were active up to the 1970's. Past mining operations allowed mining tailings and debris to discharge to some creeks and this has increased mercury levels in sediment and soils in those watersheds.

### **Testing Performed**

All samples collected from Guadalupe Creek, Los Gatos Creek, Alamitos Creek, Coyote Creek, and Randol Creek were analyzed for total mercury by EPA Method 7471.

All samples taken from Guadalupe Creek, Los Gatos Creek, Alamitos Creek, Coyote Creek, and Randol Creek were analyzed for methyl-mercury by EPA Method 1630.

### **Summary of Analytical Results**

For composite samples, results ranged from a high 2.898 ng/g in sample Coyote01 (composite A) to a low of 0.217 ng/g in sample Guadalupe01 (composite ABCD).

For continuous core samples, results ranged from a high 0.795 ng/g in sample GuadalupeCC03 to a low of 0.072 ng/g in sample Guadalupe CC01

## **ORGANIC COMPOUNDS**

### **Pesticides and Organophosphorous Compounds**

Pesticides have been historically used throughout Santa Clara Valley for agricultural purposes. Both pesticides and organophosphorous compounds may have been deposited in the sediments by non-point source runoff.

#### *Testing Performed*

All samples except the residual sediment samples were tested for pesticides by EPA Method 8081. All samples from earthen channels/creeks, except the residual sediment samples were tested for organophosphorous compounds by EPA Method 8141.

#### *Summary of Analytical Results*

For continuous core sampling, CaleraEscCC01, CanoasCC01, FlintCC04, GuadalupeCC02, and GuadalupeCC03 all resulted in detectable limits of 4,4-DDE. Sample GuadalupeCC02 resulted in detectable limits of 4, 4-DDD and 4,4-DDT, as well. Sample site FlintCC01 resulted in detectable limits for Heptachlor epoxide.

Results are presented in Appendix A.

The following table summarizes sample sites, concentrations, and types of pesticides found at those sites for composite samples:

Site Name	4,4-DDE (ug/Kg)	4,4-DDT (ug/Kg)
Calabazas02	3.2	0
Calabazas03	4.0	0
Calabazas05	4.1	0
Guadalupe01	16	19
Guadalupe02	6.6	7.7
Guadalupe03	11	0

### **Polychlorinated Biphenyls and Total Mercury**

#### *Testing Performed*

All residual sediment samples collected from earthen channels/creeks were tested for PCBs and total mercury by EPA Method 8082 and 7471, respectively, in an attempt to characterize sediments that may be subject to erosion and transport during flows.

#### *Summary of Analytical Results*

No PCBs were detected in any sample except in sample site MataderoR01, which resulted in 190 ug/Kg of PCB-1260.

Total mercury tested a high value of 1.7000 ug/Kg at sample site GuadalupeR03 and a low value of 0.0280 ug/Kg at sample site BerryMilR02.

### **Solvents**

Solvents are generated by industrial activities and may be deposited in sediments by non-point source runoff. Solvents are highly volatile, so it is not likely that significant quantities of solvents will be detected since the sediments are open to the atmosphere.

None of the seventeen (17) composite samples from eight creeks analyzed for halogenated volatiles in 1997 revealed presence of halogenated volatiles above detection limits. Furthermore, none of the 54 composite samples from 19 creeks analyzed for halogenated volatiles in 1998 revealed presence of halogenated volatiles above detection limits. This comparison of sediment analyses was discussed at the 1998 Lessons Learned Meeting.

#### *Testing Performed*

No testing was performed during the 2001 Sediment Removal Project.

## **Polynuclear Aromatic Hydrocarbons**

PAH is generated by industrial activities and may be deposited in sediments by non-point source runoff.

### *Testing Performed*

All samples except the residual sediment samples were analyzed for PAH by EPA Method 8310.

### *Summary of Analytical Results*

PAHs were detected in all composite sample sites except the following: BerryCrop01, BerryPied01, Calabazas08, CaleraMil01, CaleraEsc01, LosCoches01, Randol01, Rucker01, and Sierra01. See Appendix A for resultant concentrations.

For continuous core samples, the following sites resulted in detectable limits of PAHs: AdobeCC01, CalabazasCC01, CalabazasCC02, CalabazasCC04, CalabazasCC05, GuadalupeCC02, GuadalupeCC03, LosCochesCC02, MataderoCC01, RandolCC01, and SierraCC01.

## **MOISTURE CONTENT**

Sediments in creeks naturally contain moisture; moisture content may fluctuate during the year and is dependant on creek flows, groundwater elevation, and other local conditions. The moisture content of in-situ soils will be higher than the moisture content of excavated sediments, due to the natural process of evaporation and infiltration.

Analysis of moisture content is required for Class III landfill acceptance for wet soils. In addition, it is necessary to measure the moisture content in order to determine the dry weight concentrations of constituents within the sediment.

### **Testing Performed**

All samples except residual sediment samples were analyzed for moisture content by EPA Method 160.3.

### **Summary of Analytical Results**

Moisture content for composite samples ranged from 2.9 percent to 94 percent (BerryPied01 and Calabazas08, respectively).

For continuous core samples, moisture content ranged from 5.7 percent to 80 percent (BerryCropCC01 and CalabazasCC03, respectively).

## **TOTAL ORGANIC CARBON**

Organic matter occurs naturally in sediment due to aquatic plant and animal life. Organic matter may also be deposited in the creek by non-point source runoff.

The percentage of organic matter in the sediment is of concern because soils with high levels of organic content may be considered putrescent. The levels of organic content are also important if the sediments are to be used as a soil amendment or as structural fill.

### **Testing Performed**

All samples except residual sediment samples were analyzed for TOC by EPA Method 415.2.

### **Summary of Analytical Results**

Total organic carbon ranged from 18,000 mg/Kg in sample Adobe01A to 1600 mg/Kg in sample Ross01 for composite samples.

Total organic carbon for continuous core samples ranged from 24,000 mg/Kg in sample AdobeCC01 to 770 mg/Kg in sample BerryMilCC02.

## **SALINITY**

Sediments in tidal areas may contain elevated levels of salinity. Salinity is of concern because it may be toxic to freshwater aquatic life. Class III landfills may also have restrictions on salinity levels.

### **Testing Performed**

All samples in tidal areas only except residual sediment samples were tested for chloride by EPA Method 300.0.

### **Summary of Analytical Results**

For composite samples, chloride ranged from a high of 230 mg/Kg in sample BerryMil02, to a low of 35 mg/Kg in sample Adobe01A.

For continuous core samples, chloride ranged from a high of 380 mg/Kg in sample CoyoteCC01 to a low of 12 mg/Kg in sample GuadalupeCC03.

## **PHYSICAL PARAMETERS**

The physical parameters of the sediments must be known to determine if a sediment is suitable for reuse as a construction material, or as a topsoil or soil amendment. Physical parameters of concern include grain size distribution and Atterberg Limits (liquid limit and plastic limit).

## **Grain Size Distribution**

Grain size distribution is measured using both sieves and hydrometer; sieves classify the coarse-grained fraction (sand and gravel), while a hydrometer classifies the fine-grained fraction (clays and silts). The sieve test can be used to determine the distribution of the coarse-grained materials, but not the distribution of fines. Sediments with significant quantities of fines (greater than 10 percent passing a No. 200 sieve) should be analyzed by the hydrometer method to determine the distribution of fines.

### *Testing Performed*

All samples except residual sediment samples were tested for grain size distribution using sieves to determine the distribution of the coarse fraction by ASTM Method D422 - sieve test. Samples containing greater than 10 percent fines were tested for grain size distribution using the hydrometer by ASTM D422 - hydrometer.

### *Summary of Analytical Results*

Grain size distribution results for each sample varied in range from clay to coarse gravel.

Test results are presented in Appendix B.

## **Atterberg Limits**

The Atterberg Limits are used to determine the engineering properties of fine-grained soils passing a No. 40 sieve (clay, silts, and fine sands). District engineers recommend soils be tested for grain size distribution and plasticity index. A representative of a local Class III landfill recommends that sediments used as engineered fill be tested for the plasticity index by the WET method.

### *Testing Performed*

All samples except residual sediment samples were tested for Atterberg Limits by ASTM Method D4318 and Method B (dry preparation).

### *Summary of Analytical Results*

Test results are presented in Appendix B.

## **PETROLEUM PRODUCTS**

Petroleum products may be present in the sediment due to non-point source of pollution which are washed into the creek. Petroleum products which may have been deposited in the creek over time include heavier hydrocarbons (such as motor oil). Since the creek is a system which is open to the atmosphere, it is not likely that sediments will contain volatile hydrocarbons.

## Testing Performed

All samples except residual sediment samples were analyzed for total extractable petroleum hydrocarbons, for petroleum in the range of C8 through C28, by California LUFT Modified 8015 method (THE—Kerosene, Diesel).

## Summary of Analytical Results

### *Kerosene, C9-18*

Kerosene concentrations varied by sample site. The following sites tested below the detectable limit of 1.0 mg/Kg: Calabazas07 (composite), Calabazas08 (composite), Ross01 (composite), BerryMilCC02 (continuous core), CalabazasCC03 (continuous core), CoyoteCC01 (continuous core), MataderoCC01 (continuous core), RossCC01 (continuous core), and RuckerCC01 (continuous core).

The highest level of Kerosene detected for the composite samples was 31 mg/Kg in sample Canoas01, and for the continuous core samples was 34 mg/Kg in sample CaleraMilCC01.

### *Diesel*

Diesel levels varied by sample site. All sites tested above the detectable level of 1.0 mg/Kg.

The highest level detected for composite samples was 150 mg/Kg at both Adobe01A and Canoas01. For continuous core samples, the highest level of diesel detected was 160 mg/Kg at CaleraMilCC01.

## TOXICITY

Creek sediment may be toxic due to non-point source pollutants which may have been deposited into the creeks. Toxicity is of concern if the sediment is to be reused. Sediment toxicity tests will be conducted only on composite samples from sites where the waters may not be controlled during sediment removal operations due to tidal action.

## Testing Performed

All samples in tidal areas except residual sediment samples were tested for toxicity by means of a toxicity screening bioassay, by the test method specified in California Code of Regulations, Title 22. The samples were tested using *Eohaustorius estuarius*.

## Summary of Analytical Results

From the first set of samples submitted to the lab, results showed a 90% survival of amphipods at 1.5 mg/L cadmium concentration, where the Control treatment showed a 100% survival rate.

At 3 mg/L cadmium, the survival rate was reduced to 50%, which was significantly less than the Control. The resulting EC50 value was 3.8 mg/L.

The second set of samples submitted to the lab resulted in a 90% survival rate of Amphipods at 1.5 mg/L. At 3.0 mg/L, amphipod survival was reduced to 55%, which was also significantly less than the Control. The resulting EC50 value was 4.2 mg/L.

The current reference toxicant test ED50 of 3.8 and 4.2 mg/L is well within the “acceptability” range of the labs house reference toxicant test data base of 1.4 - 8.0 mg/L, indicating that these amphipods were responding to toxicant stress in a consistent and typical fashion.

Results are presented in Appendix C.

## **pH**

The pH of sediment is of concern for sediment reuse. Extremely high or low pH may indicate contamination. In addition, pH is useful for determining the suitability of the soil for reuse as a topsoil or soil amendment.

### **Testing Performed**

All samples except residual sediment samples were tested for pH by EPA Method 150.1.

### **Summary of Analytical Results**

pH ranged from 7.7 at sample site Adobe01A to 9.34 at sample site Calabazas08 for composite samples.

For continuous core samples, pH ranged from 7.38 at sample site MataderoCC01 to 8.53 at sample site RossCC01. These ranges are neutral to slightly basic.

Results are presented in Appendix A.

## **ASBESTOS**

Asbestos may be present in sediment due to the presence of asbestos-containing serpentine rock formations within the Santa Clara Valley. Serpentine rocks may have been used in the construction of levees constructed by landowners; therefore, there is a possibility that asbestos may be present in sites where there are no serpentine formations.

### **Testing Performed**

All samples except residual sediment samples were analyzed by EPA Method 600R-93-116 (phase light microscopy).

### **Summary of Analytical Results**

Sample site FlintCC01 tested 3 percent cellulose; Guadalupe01 and GuadalupeCC03 resulted in 5 percent cellulose; Guadalupe03 resulted in 2 percent cellulose; and Randol 01 and RandolCC01 resulted in 4 percent cellulose. All other samples tested less than 1 percent cellulose.

Results are presented in Appendix D.



## **APPENDIX A**

2001 Sediment  
Analytical Data for Sediment Samples  
Continuous Core Samples

		AdobeCC01 (continuous)		BerryMilCC01 (continuous)		BerryMilCC02 (continuous)		BerryCropCC01 (continuous)		BerryPiedCC01 (continuous)		CalabazasCC01 (continuous)		CalabazasCC02 (continuous)		CalabazasCC03 (continuous)		CalabazasCC04 (continuous)		CalabazasCC05 (continuous)	
Analyte	units	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
Total Metals, TTLC																					
Mercury	mg/Kg	0.0370	0.0035	0.0550	0.0038	0.0270	0.0036	0.0940	0.0037	0.0720	0.0034	0.0280	0.0043	0.1700	0.0034	0.073	0.0037	0.0230	0.0047	0.0640	0.0034
Antimony	mg/Kg	ND	1.800	ND	1.800	ND	1.800	ND	1.800	ND	1.700	ND	1.800	ND	1.900	2.3	1.800	ND	2.100	ND	1.800
Arsenic	mg/Kg	3.800	3.600	7.000	3.600	5.900	3.600	13.000	3.600	7.100	3.400	ND	3.600	5.000	3.700	8.600	3.600	ND	4.200	4.100	3.700
Barium	mg/Kg	88.000	4.500	56.000	4.500	130.000	4.500	110.000	4.500	79.000	4.200	52.000	4.500	110.000	4.600	170.000	4.500	60.000	5.300	68.000	4.600
Beryllium	mg/Kg	ND	0.450	ND	0.450	ND	0.450	ND	0.450	ND	0.450	ND	0.450	ND	0.460	ND	0.450	ND	0.530	ND	0.460
Cadmium	mg/Kg	ND	0.550	ND	0.550	ND	0.550	ND	0.550	ND	0.510	ND	0.550	ND	0.560	ND	0.550	ND	0.630	ND	0.550
Chromium	mg/Kg	79.000	5.500	25.000	5.500	31.000	5.500	32.000	5.500	30.000	5.100	37.000	5.500	85.000	5.600	57.000	5.500	39.000	6.300	35.000	5.500
Cobalt	mg/Kg	15.000	0.910	7.500	0.910	7.800	0.910	8.500	0.910	7.800	0.850	11.000	0.910	16.000	0.930	16.000	0.910	9.900	1.100	9.600	0.920
Copper	mg/Kg	32.000	1.800	14.000	1.800	16.000	1.800	24.000	1.800	61.000	1.700	13.000	1.800	25.000	1.900	33.000	1.800	14.000	2.100	14.000	1.800
Lead	mg/Kg	17.000	4.500	5.300	4.500	4.900	4.500	11.000	4.500	4.400	4.200	ND	4.500	17.000	4.600	10.000	4.500	7.500	5.300	12.000	4.600
Molybdenum	mg/Kg	ND	0.910	ND	0.910	ND	0.910	ND	0.910	ND	0.850	ND	0.910	ND	0.930	ND	0.910	ND	1.100	ND	0.920
Nickel	mg/Kg	57.000	0.910	44.000	0.910	44.000	0.910	51.000	0.910	38.000	0.850	37.000	0.910	100.000	0.930	67.000	0.910	42.000	1.100	37.000	0.920
Selenium	mg/Kg	ND	4.500	ND	4.500	ND	4.500	ND	4.500	ND	4.200	ND	4.500	ND	4.600	ND	4.500	ND	5.300	ND	4.600
Silver	mg/Kg	ND	1.400	ND	1.400	ND	1.400	ND	1.400	ND	1.300	ND	1.400	ND	1.400	ND	1.400	ND	1.600	ND	1.400
Thallium	mg/Kg	ND	1.600	ND	1.600	2.600	1.600	ND	1.600	5.400	1.500	ND	1.600	ND	1.700	ND	1.600	ND	1.900	ND	1.700
Vanadium	mg/Kg	65.000	1.400	29.000	1.400	31.000	1.400	40.000	1.400	34.000	1.300	37.000	1.400	48.000	1.400	60.000	1.400	39.000	1.600	35.000	1.400
Zinc	mg/Kg	88.000	6.400	41.000	6.400	37.000	6.400	59.000	6.400	40.000	5.900	54.000	6.400	79.000	6.500	61.000	6.400	48.000	7.400	48.000	6.400
Methyl Mercury, (EPA 1630 Modified)																					
Methyl Mercury	ng/g	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Soluble Metals, STLC																					
Mercury	ug/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Antimony	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Arsenic	ug/L	290.0	200.0	ND	200.0	2000.0	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Barium	ug/L	7000.0	200.0	16000.0	200.0	12000.0	200.0	6900.0	200.0	20000.0	200.0	6000.0	200.0	9900.0	200.0	12000.0	200.0	6500.0	200.0	7300.0	200.0
Beryllium	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Cadmium	ug/L	ND	20.0	ND	20.0	21.0	20.0	ND	20.0	20.0	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Chromium	ug/L	920.0	20.0	150.0	20.0	140.0	20.0	270.0	20.0	230.0	20.0	570.0	20.0	770.0	20.0	130.0	20.0	640.0	20.0	670.0	20.0
Cobalt	ug/L	290.0	80.0	190.0	80.0	230.0	80.0	190.0	80.0	210.0	80.0	360.0	80.0	360.0	80.0	410.0	80.0	220.0	80.0	430.0	80.0
Copper	ug/L	ND	20.0	140.0	20.0	100.0	20.0	550.0	20.0	380.0	20.0	ND	20.0	23.0	20.0	420.0	20.0	ND	20.0	ND	20.0
Lead	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	200.0	200.0	400.0	200.0	ND	200.0	220.0	200.0	330.0	200.0
Molybdenum	ug/L	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0
Nickel	ug/L	670.0	80.0	770.0	80.0	490.0	80.0	1900.0	80.0	1300.0	80.0	670.0	80.0	840.0	80.0	530.0	80.0	550.0	80.0	860.0	80.0
Selenium	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Silver	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Thallium	ug/L	680.0	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	580.0	200.0	860.0	200.0	ND	200.0	390.0	200.0	630.0	200.0
Vanadium	ug/L	870.0	80.0	170.0	80.0	350.0	80.0	140.0	80.0	150.0	80.0	480.0	80.0	1000.0	80.0	460.0	80.0	680.0	80.0	750.0	80.0
Zinc	ug/L	4600.0	20.0	1200.0	20.0	800.0	20.0	1100.0	20.0	990.0	20.0	2600.0	20.0	5800.0	20.0	1100.0	20.0	2200.0	20.0	2900.0	20.0
Pesticides (EPA 8081)																					
Aldrin	ug/Kg	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
alpha-BHC	ug/Kg	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
beta-BHC	ug/Kg	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
delta-BHC	ug/Kg	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
gamma-BHC	ug/Kg	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlordane (tech)	ug/Kg	ND	200.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
4,4-DDD	ug/Kg	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
4,4-DDE	ug/Kg	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
4,4-DDT	ug/Kg	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Dieldrin	ug/Kg	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan I	ug/Kg	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan II	ug/Kg	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan sulfate	ug/Kg	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Endrin	ug/Kg	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endrin aldehyde	ug/Kg	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Endrin ketone	ug/Kg	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Heptachlor	ug/Kg	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Heptachlor epoxide	ug/Kg	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methoxychlor	ug/Kg	ND	200.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Toxaphene	ug/Kg	ND	800.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0

\*Lab missed hold time - Sample not analyzed  
File: ks\2001 Sample Results SC\ContCore

2001 Sediment Removal Project -  
Analytical Data for Sediment Samples  
Continuous Core Samples

		CalabazasCC06 (continuous)		CalabazasCC07 (continuous)		CalabazasCC08 (continuous)		CaleraMilCC01 (continuous)		CaleraEscCC01 (continuous)		CanoasCC01 (continuous)		CoyoteCC01 (continuous)		FlintCC01 (continuous)		FlintCC02 (continuous)		FlintCC03 (continuous)	
Analyte	units	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
Total Metals, TTLC																					
Mercury	mg/Kg	0.0210	0.0038	0.024	0.0034	0.0700	0.0034	0.1100	0.0044	0.0560	0.0035	0.2800	0.0038	0.0510	0.0036	0.3400	0.0040	0.5100	0.0036	0.1800	0.0038
Antimony	mg/Kg	ND	1.800	ND	1.800	ND	1.800	ND	1.700	ND	1.700	ND	1.600	ND	1.500	ND	1.800	ND	1.800	ND	1.800
Arsenic	mg/Kg	6.200	3.600	4.400	3.600	4.700	3.800	ND	3.400	9.100	3.400	5.800	3.200	8.400	3.100	6.400	3.600	8.500	3.600	6.900	3.600
Barium	mg/Kg	61.000	4.500	72.000	4.500	80.000	4.700	120.000	4.200	170.000	4.300	79.000	4.000	61.000	3.800	120.000	4.500	85.000	4.500	130.000	4.500
Beryllium	mg/Kg	ND	0.450	ND	0.450	ND	0.470	ND	0.420	ND	0.430	ND	0.400	ND	0.380	ND	0.450	ND	0.450	ND	0.450
Cadmium	mg/Kg	ND	0.550	ND	0.550	ND	0.570	0.610	0.510	ND	0.520	ND	0.480	ND	0.460	0.700	0.550	0.700	0.540	0.900	0.550
Chromium	mg/Kg	54.000	5.500	52.000	5.500	43.000	5.700	32.000	5.100	41.000	5.200	64.000	4.800	35.000	4.600	21.000	5.500	17.000	5.400	23.000	5.500
Cobalt	mg/Kg	12.000	0.910	11.000	0.910	9.000	0.940	6.800	0.850	8.900	0.860	11.000	0.810	8.900	0.760	4.600	0.910	3.900	0.900	5.400	0.910
Copper	mg/Kg	18.000	1.800	19.000	1.800	22.000	1.900	32.000	1.700	16.000	1.700	18.000	1.600	23.000	1.500	9.400	1.800	8.200	1.800	11.000	1.800
Lead	mg/Kg	7.100	4.500	5.300	4.500	ND	4.700	65.000	4.200	8.000	4.300	42.000	4.000	6.700	3.800	6.200	4.500	8.000	4.500	10.000	4.500
Molybdenum	mg/Kg	ND	0.910	ND	0.910	ND	0.940	ND	0.850	ND	0.860	ND	0.810	ND	0.760	ND	0.910	ND	0.900	ND	0.910
Nickel	mg/Kg	66.000	0.910	47.000	0.910	38.000	0.940	41.000	0.850	51.000	0.860	82.000	0.810	37.000	0.760	22.000	0.910	18.000	0.900	23.000	0.910
Selenium	mg/Kg	ND	4.500	ND	4.500	ND	4.700	ND	4.200	ND	4.300	ND	4.000	ND	3.800	ND	4.500	ND	4.500	ND	4.500
Silver	mg/Kg	ND	1.400	ND	1.400	ND	1.400	ND	1.300	ND	1.300	ND	1.200	ND	1.100	ND	1.400	ND	1.400	ND	1.400
Thallium	mg/Kg	ND	1.600	ND	1.600	ND	1.700	ND	1.500	1.900	1.600	4.000	1.500	5.800	1.400	2.200	1.600	ND	1.600	4.300	1.600
Vanadium	mg/Kg	47.000	1.400	54.000	1.400	47.000	1.400	26.000	1.300	34.000	1.300	27.000	1.200	31.000	1.100	27.000	1.400	23.000	1.400	27.000	1.400
Zinc	mg/Kg	52.000	6.400	49.000	6.400	70.000	6.800	150.000	5.900	44.000	6.000	140.000	5.600	48.000	5.300	34.000	6.400	38.000	6.300	45.000	6.400
Methyl Mercury, (EPA 1630 Modified)																					
Methyl Mercury	ng/g	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		0.408	0.070	Not Analyzed		Not Analyzed		Not Analyzed	
Soluable Metals, STL																					
Mercury	ug/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Antimony	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Arsenic	ug/L	ND	200.0	480.0	200.0	390.0	200.0	370.0	200.0	290.0	200.0	240.0	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Barium	ug/L	4400.0	200.0	5100.0	200.0	6600.0	200.0	11000.0	200.0	13000.0	200.0	7400.0	200.0	6300.0	200.0	7100.0	200.0	6200.0	200.0	7600.0	200.0
Beryllium	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Cadmium	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	52.0	20.0	35.0	20.0	ND	20.0
Chromium	ug/L	100.0	20.0	120.0	20.0	140.0	20.0	270.0	20.0	79.0	20.0	760.0	20.0	200.0	20.0	75.0	20.0	110.0	20.0	150.0	20.0
Cobalt	ug/L	130.0	80.0	170.0	80.0	240.0	80.0	200.0	80.0	290.0	80.0	400.0	80.0	310.0	80.0	230.0	80.0	210.0	80.0	250.0	80.0
Copper	ug/L	110.0	20.0	130.0	20.0	200.0	20.0	45.0	20.0	190.0	20.0	ND	20.0	190.0	20.0	140.0	20.0	ND	20.0	ND	20.0
Lead	ug/L	ND	200.0	ND	200.0	ND	200.0	2600.0	200.0	ND	200.0	1200.0	200.0	410.0	200.0	250.0	200.0	3300.0	200.0	220.0	200.0
Molybdenum	ug/L	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0
Nickel	ug/L	240.0	80.0	380.0	80.0	500.0	80.0	690.0	80.0	600.0	80.0	1500.0	80.0	690.0	80.0	430.0	80.0	480.0	80.0	610.0	80.0
Selenium	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Silver	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Thallium	ug/L	ND	200.0	ND	200.0	ND	200.0	480.0	200.0	ND	200.0	790.0	200.0	410.0	200.0	270.0	200.0	550.0	200.0	830.0	200.0
Vanadium	ug/L	120.0	80.0	180.0	80.0	210.0	80.0	710.0	80.0	570.0	80.0	690.0	80.0	230.0	80.0	300.0	80.0	480.0	80.0	750.0	80.0
Zinc	ug/L	1600.0	20.0	1600.0	20.0	2500.0	20.0	9100.0	20.0	1900.0	20.0	6900.0	20.0	2100.0	20.0	1600.0	20.0	1600.0	20.0	2100.0	20.0
Pesticides (EPA 8081)																					
Aldrin	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
alpha-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
beta-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
delta-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
gamma-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlordane (tech)	ug/Kg	ND	20.0	ND	20.0	ND	20.0	ND	200.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
4,4-DDD	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
4,4-DDE	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	20.0	2.7	2.0	8.2	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
4,4-DDT	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Dieldrin	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan I	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan II	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan sulfate	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Endrin	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endrin aldehyde	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Endrin keytone	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Heptachlor	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Heptachlor epoxide	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methoxychlor	ug/Kg	ND	20.0	ND	20.0	ND	20.0	ND	200.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Toxaphene	ug/Kg	ND	80.0	ND	80.0	ND	80.0	ND	800.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0

\*Lab m\* hold time - Sample not analyzed  
File: ks sample Results SC\ContCore

2001 Sediment Removal Project -  
Analytical Data for Sediment Samples  
Continuous Core Samples

		FlintCC04 (continuous)		FlintCC05 (continuous)		GuadalupeCC01 (continuous)		GuadalupeCC02 (continuous)		GuadalupeCC03 (continuous)		LosCochesCC02 (continuous)		MataderoCC01 (continuous)		RandoIC01 (continuous)		RossCC01 (continuous)		RuckerCC01 (continuous)	
Analyte	units	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
Total Metals, TTLC																					
Mercury	mg/Kg	0.1600	0.0038	0.3700	0.0035	0.1100	0.0036	0.3800	0.0044	1.6000	0.0200	0.0290	0.0034	0.0510	0.0040	3.7000	0.0350	0.3200	0.0037	0.0310	0.0035
Antimony	mg/Kg	ND	1.800	ND	1.700	ND	1.800	ND	1.700	ND	1.600	ND	1.700	ND	1.800	ND	1.800	ND	1.700	ND	1.500
Arsenic	mg/Kg	6.600	3.500	6.600	3.400	12.000	3.600	8.800	3.400	5.800	3.300	3.700	3.300	6.200	3.600	6.000	3.600	5.400	3.500	12.000	3.100
Barium	mg/Kg	130.000	4.400	120.000	4.300	160.000	4.500	140.000	4.200	120.000	4.100	93.000	4.100	75.000	4.500	69.000	4.500	72.000	4.300	150.000	3.800
Beryllium	mg/Kg	ND	0.440	ND	0.430	ND	0.450	ND	0.420	ND	0.410	ND	0.410	ND	0.450	ND	0.450	ND	0.430	ND	0.380
Cadmium	mg/Kg	0.770	0.530	0.930	0.510	ND	0.540	ND	0.500	0.630	0.490	ND	0.500	ND	0.550	ND	0.540	ND	0.520	ND	0.460
Chromium	mg/Kg	24.000	5.300	20.000	5.100	62.000	5.400	52.000	5.000	69.000	4.900	22.000	5.000	46.000	5.500	100.000	5.400	42.000	5.200	37.000	4.600
Cobalt	mg/Kg	5.800	0.880	4.100	0.850	14.000	0.890	10.000	0.840	13.000	0.810	5.100	0.830	9.900	0.910	18.000	0.890	9.100	0.870	9.700	0.770
Copper	mg/Kg	11.000	1.800	7.600	1.700	32.000	1.800	26.000	1.700	43.000	1.600	9.300	1.700	28.000	1.800	24.000	1.800	13.000	1.700	26.000	1.500
Lead	mg/Kg	9.800	4.400	4.800	4.300	10.000	4.500	11.000	4.200	43.000	4.100	6.700	4.100	25.000	4.500	12.000	4.500	11.000	4.300	16.000	3.800
Molybdenum	mg/Kg	ND	0.880	ND	0.850	ND	0.890	ND	0.840	ND	0.810	ND	0.830	ND	0.910	ND	0.890	ND	0.870	ND	0.770
Nickel	mg/Kg	22.000	0.880	17.000	0.850	88.000	0.890	56.000	0.840	78.000	0.810	28.000	0.830	50.000	0.910	150.000	0.890	46.000	0.870	32.000	0.770
Selenium	mg/Kg	ND	4.400	ND	0.430	ND	4.500	ND	4.200	ND	4.100	ND	4.100	ND	4.500	ND	4.500	ND	4.300	ND	3.800
Silver	mg/Kg	ND	1.300	ND	1.300	ND	1.300	ND	1.300	ND	1.200	ND	1.200	ND	1.400	ND	1.300	ND	1.300	ND	1.200
Thallium	mg/Kg	4.200	1.600	3.100	1.500	9.900	1.600	4.800	1.500	7.200	1.500	ND	1.500	ND	1.600	2.300	1.600	ND	1.600	7.100	1.400
Vanadium	mg/Kg	29.000	1.300	25.000	1.300	45.000	1.300	46.000	1.300	44.000	1.200	19.000	1.200	35.000	1.400	47.000	1.300	39.000	1.300	37.000	1.200
Zinc	mg/Kg	49.000	6.200	33.000	6.000	66.000	6.200	55.000	5.900	150.000	5.700	33.000	5.800	66.000	6.400	110.000	6.200	75.000	6.100	51.000	5.400
Methyl Mercury, (EPA 1630 Modified)																					
Methyl Mercury	ng/g	Not Analyzed		Not Analyzed		0.072	0.070	0.380	0.070	0.795	0.070	Not Analyzed		Not Analyzed		0.225	0.070	Not Analyzed		Not Analyzed	
Soluable Metals, STLC																					
Mercury	ug/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Antimony	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Arsenic	ug/L	370.0	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	310.0	200.0	ND	200.0	ND	200.0	ND	200.0
Barium	ug/L	8500.0	200.0	6900.0	200.0	10000.0	200.0	9600.0	200.0	8800.0	200.0	7100.0	200.0	5800.0	200.0	5800.0	200.0	5900.0	200.0	11000.0	200.0
Beryllium	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Cadmium	ug/L	ND	20.0	42.0	20.0	ND	20.0	ND	20.0	38.0	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Chromium	ug/L	230.0	20.0	ND	20.0	310.0	20.0	210.0	20.0	700.0	20.0	47.0	20.0	760.0	20.0	2300.0	20.0	260.0	20.0	270.0	20.0
Cobalt	ug/L	280.0	80.0	ND	80.0	560.0	80.0	720.0	80.0	470.0	80.0	220.0	80.0	160.0	80.0	750.0	80.0	270.0	80.0	590.0	80.0
Copper	ug/L	24.0	20.0	49.0	20.0	220.0	20.0	250.0	20.0	1500.0	20.0	150.0	20.0	ND	20.0	ND	20.0	140.0	20.0	140.0	20.0
Lead	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	2000.0	200.0	ND	200.0	ND	200.0	ND	200.0	350.0	200.0	330.0	200.0
Molybdenum	ug/L	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0
Nickel	ug/L	700.0	80.0	160.0	80.0	1600.0	80.0	1300.0	80.0	1400.0	80.0	430.0	80.0	820.0	80.0	5000.0	80.0	750.0	80.0	480.0	80.0
Selenium	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Silver	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Thallium	ug/L	1200.0	200.0	ND	200.0	290.0	200.0	ND	200.0	570.0	200.0	ND	200.0	530.0	200.0	1200.0	200.0	300.0	200.0	550.0	200.0
Vanadium	ug/L	1100.0	80.0	ND	80.0	410.0	80.0	820.0	80.0	650.0	80.0	220.0	80.0	940.0	80.0	1000.0	80.0	350.0	80.0	670.0	80.0
Zinc	ug/L	2000.0	20.0	1800.0	20.0	1100.0	20.0	1200.0	20.0	7300.0	20.0	1800.0	20.0	2600.0	20.0	5600.0	20.0	3900.0	20.0	1500.0	20.0
Pesticides (EPA 8081)																					
Aldrin	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	10.0	ND	1.0	ND	1.0
alpha-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	10.0	ND	1.0	ND	1.0
beta-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	10.0	ND	1.0	ND	1.0
delta-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	10.0	ND	1.0	ND	1.0
gamma-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	10.0	ND	1.0	ND	1.0
Chlordane (tech)	ug/Kg	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	200.0	ND	200.0	ND	20.0	ND	20.0
4,4-DDD	ug/Kg	ND	6.0	ND	6.0	ND	6.0	13	6.0	ND	6.0	ND	6.0	ND	60.0	ND	60.0	ND	6.0	ND	6.0
4,4-DDE	ug/Kg	3.3	2.0	ND	2.0	ND	2.0	3.3	2.0	3.8	2.0	ND	2.0	ND	20.0	ND	20.0	ND	2.0	ND	2.0
4,4-DDT	ug/Kg	ND	6.0	ND	6.0	ND	6.0	14	6.0	ND	6.0	ND	6.0	ND	60.0	ND	60.0	ND	6.0	ND	6.0
Dieldrin	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	20.0	ND	2.0	ND	2.0
Endosulfan I	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	20.0	ND	2.0	ND	2.0
Endosulfan II	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	20.0	ND	2.0	ND	2.0
Endosulfan sulfate	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	60.0	ND	6.0	ND	6.0
Endrin	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	20.0	ND	2.0	ND	2.0
Endrin aldehyde	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	60.0	ND	6.0	ND	6.0
Endrin keytone	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	60.0	ND	6.0	ND	6.0
Heptachlor	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	10.0	ND	1.0	ND	1.0
Heptachlor epoxide	ug/Kg	ND	1.0	ND	1.0	ND	1.0	12	1.0	ND	1.0	ND	1.0	ND	10.0	ND	10.0	ND	1.0	ND	1.0
Methoxychlor	ug/Kg	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	200.0	ND	200.0	ND	20.0	ND	20.0
Toxaphene	ug/Kg	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	800.0	ND	800.0	ND	80.0	ND	80.0

\*Lab missed hold time - Sample not analyzed  
File: ksl2001 Sample Results SCIContCore

2001 Sediment Removal Project -  
Analytical Data for Sediment Samples  
Continuous Core Samples

		SierraCC01 (continuous)	
Analyte	units	results	det. lim.
Total Metals, TTLC			
Mercury	mg/Kg	0.0290	0.0039
Antimony	mg/Kg	ND	1.800
Arsenic	mg/Kg	6.300	3.500
Barium	mg/Kg	120.000	4.400
Beryllium	mg/Kg	ND	0.440
Cadmium	mg/Kg	ND	0.530
Chromium	mg/Kg	62.000	5.300
Cobalt	mg/Kg	8.600	0.880
Copper	mg/Kg	15.000	1.800
Lead	mg/Kg	5.500	4.400
Molybdenum	mg/Kg	ND	0.880
Nickel	mg/Kg	100.000	0.880
Selenium	mg/Kg	ND	4.400
Silver	mg/Kg	ND	1.300
Thallium	mg/Kg	4.200	1.600
Vanadium	mg/Kg	26.000	1.300
Zinc	mg/Kg	40.000	6.200
Methyl Mercury, (EPA 1630 Modified)			
Methyl Mercury	ng/g	Not Analyzed	
Soluable Metals, STLC			
Mercury	ug/L	ND	1.0
Antimony	ug/L	ND	200.0
Arsenic	ug/L	ND	200.0
Barium	ug/L	6500.0	200.0
Beryllium	ug/L	ND	20.0
Cadmium	ug/L	22.0	20.0
Chromium	ug/L	430.0	20.0
Cobalt	ug/L	220.0	80.0
Copper	ug/L	56.0	20.0
Lead	ug/L	ND	200.0
Molybdenum	ug/L	ND	80.0
Nickel	ug/L	1200.0	80.0
Selenium	ug/L	ND	200.0
Silver	ug/L	ND	20.0
Thallium	ug/L	240.0	200.0
Vanadium	ug/L	200.0	80.0
Zinc	ug/L	1400.0	20.0
Pesticides (EPA 8081)			
Aldrin	ug/Kg	ND	1.0
alpha-BHC	ug/Kg	ND	1.0
beta-BHC	ug/Kg	ND	1.0
delta-BHC	ug/Kg	ND	1.0
gamma-BHC	ug/Kg	ND	1.0
Chlordane (tech)	ug/Kg	ND	20.0
4,4-DDD	ug/Kg	ND	6.0
4,4-DDE	ug/Kg	ND	2.0
4,4-DDT	ug/Kg	ND	6.0
Dieldrin	ug/Kg	ND	2.0
Endosulfan I	ug/Kg	ND	2.0
Endosulfan II	ug/Kg	ND	2.0
Endosulfan sulfate	ug/Kg	ND	6.0
Endrin	ug/Kg	ND	2.0
Endrin aldehyde	ug/Kg	ND	6.0
Endrin keytone	ug/Kg	ND	6.0
Heptachlor	ug/Kg	ND	1.0
Heptachlor epoxide	ug/Kg	ND	1.0
Methoxychlor	ug/Kg	ND	20.0
Toxaphene	ug/Kg	ND	80.0

\*Lab mir      old time - Sample not analyzed  
File: ks\      Sample Results SC\ContCore

Analytical Data for Sediment Samples  
Continuous Core Samples

		AdobeCC01 (continuous)		BerryMilCC01 (continuous)		BerryMilCC02 (continuous)		BerryCropCC01 (continuous)		BerryPiedCC01 (continuous)		CalabazasCC01 (continuous)		CalabazasCC02 (continuous)		CalabazasCC03 (continuous)		CalabazasCC04 (continuous)		CalabazasCC05 (continuous)	
Analyte	units	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
<b>PCBs (8082)</b>																					
PCB-1016	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1221	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1232	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1242	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1248	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1254	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1260	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1262	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1268	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
<b>Organophosphorous Comp. (EPA 8141)</b>																					
Azinphos-methyl	ug/Kg	Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		ND	40	Not Analyzed		Not Analyzed	
BoIstar	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Chloropyrifos	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Coumaphos	ug/Kg	Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		ND	40	Not Analyzed		Not Analyzed	
Demeton	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Diazanone	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Dichlorvos	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Disulfoton	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Ethion	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Ethoprop	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
EPN	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Fensulfothion	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Fenthion	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Malathion	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Merphos	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Mevinphos	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Monocrotophos	ug/Kg	Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Naled	ug/Kg	Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		ND	40	Not Analyzed		Not Analyzed	
Parathion-ethyl	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Parathion-methyl	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Phorate	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Ronnel	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Stirophos	ug/Kg	Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Sulfotep	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	40	Not Analyzed		Not Analyzed	
Tokuthion (Prothiofos)	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Trichloronate	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
<b>PAHs (EPA 8310)</b>																					
Naphthalene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	2000	ND	100	ND	100	ND	100	ND	100
Acenaphthylene	ug/Kg	ND	500	ND	500	ND	500	ND	500	ND	500	ND	100000	ND	500	ND	500	ND	500	ND	500
Acenaphthene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	2000	ND	100	ND	100	ND	100	ND	100
Fluorene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	1500	400	ND	20	ND	20	ND	20	ND	20
Phenanthrene	ug/Kg	130.0	10	ND	10	ND	10	ND	10	ND	10	8300	200	46	10	ND	10	12	10	18	10
Anthracene	ug/Kg	ND	10	ND	10	ND	10	ND	10	ND	10	2300	200	ND	10	ND	10	ND	10	ND	10
Flouranthene	ug/Kg	360.0	20	ND	20	ND	20	ND	20	ND	20	8100	400	110	20	ND	20	33	20	60	20
Pyrene	ug/Kg	300.0	10	ND	10	ND	10	ND	10	ND	10	6800	200	110	10	ND	10	39	10	51	10
Benzo(a)anthracene	ug/Kg	96.0	10	ND	10	ND	10	ND	10	ND	10	2500	200	31	10	ND	10	14	10	16	10
Chrysene	ug/Kg	180.0	10	ND	10	ND	10	ND	10	ND	10	3100	200	55	10	ND	10	18	10	31	10
Benzo(b)fluoranthene	ug/Kg	170.0	20	ND	20	ND	20	ND	20	ND	20	2000	400	61	20	ND	20	25	20	33	20
Benzo(k)fluoranthene	ug/Kg	ND	10	ND	10	ND	10	ND	10	ND	10	1100	200	28	10	ND	10	ND	10	18	10
Benzo(a)pyrene	ug/Kg	ND	10	ND	10	ND	10	ND	10	ND	10	2400	200	56	10	ND	10	21	10	30	10
Dibenz(ah)anthracene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	400	40	20	ND	20	ND	20	ND	20
Benzo(ghi)perylene	ug/Kg	170.0	20	ND	20	ND	20	ND	20	ND	20	1500	400	76	20	ND	20	29	20	28	20
Indeno(1,2,3-cd)pyrene	ug/Kg	210.0	20	ND	20	ND	20	ND	20	ND	20	1600	400	49	20	ND	20	ND	20	30	20
<b>Moisture Content (EPA 160.3)</b>																					
Moisture Content	%	37	0.10	Not Analyzed		20.0	0.10	5.7	0.10	5.8	0.10	Not Analyzed		Not Analyzed		80	0.10	Not Analyzed		Not Analyzed	
<b>TEH-Kerosene/Diesel (DHS-LUFT)</b>																					
Kerosene C9-C18	mg/Kg	31	10	Not Analyzed		ND	1.0	2.9	1.0	2.1	1.0	Not Analyzed		Not Analyzed		ND	1.0	Not Analyzed		Not Analyzed	
Diesel	mg/Kg	100	10	Not Analyzed		3.1	1.0	5.7	1.0	3.6	1.0	Not Analyzed		Not Analyzed		1.6	1.0	Not Analyzed		Not Analyzed	

\*Lab missed hold time - Sample not analyzed  
File: ks\2001 Sample Results SC\ContCore



Analytical Data for Sediment Samples  
Continuous Core Samples

		CalabazasCC06 (continuous)		CalabazasCC07 (continuous)		CalabazasCC08 (continuous)		CaleraMilCC01 (continuous)		CaleraEscCC01 (continuous)		CahoasCC01 (continuous)		CoyoteCC01 (continuous)		FlintCC01 (continuous)		FlintCC02 (continuous)		FlintCC03 (continuous)	
Analyte	units	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
<b>PCBs (8082)</b>																					
PCB-1016	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1221	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1232	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1242	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1248	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1254	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1260	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1262	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1268	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
<b>Organophosphorous Comp. (EPA 8141)</b>																					
Azinphos-methyl	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		Not Analyzed	
Bolstar	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Chloropyrifos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Coumaphos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		Not Analyzed	
Demeton	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		Not Analyzed	
Diazanor	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Dichlorvos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Disulfoton	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Ethion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Ethoprop	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
EPN	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Fensulfotion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Fenthion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Malathion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Merphos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Mevinphos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Monocrotophos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		Not Analyzed	
Naled	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		Not Analyzed	
Parathion-ethyl	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Parathion-methyl	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Phorate	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Ronnel	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Stirophos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Sulfotep	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		Not Analyzed	
Tokuthion (Prothiofos)	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Trichloronate	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
<b>PAHs (EPA 8310)</b>																					
Naphthalene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Acenaphthylene	ug/Kg	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500
Acenaphthene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Fluorene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	77	20	ND	20	ND	20	ND	20	20
Phenanthrene	ug/Kg	ND	10	25	10	13	10	35	10	ND	10	940	10	ND	10	ND	10	ND	10	ND	10
Anthracene	ug/Kg	ND	10	ND	10	ND	10	ND	10	ND	10	110	10	ND	10	ND	10	ND	10	ND	10
Flouranthene	ug/Kg	ND	20	68	20	40	20	110	20	ND	20	1700	100	ND	20	ND	20	ND	20	ND	20
Pyrene	ug/Kg	ND	10	68	10	36	10	110	10	ND	10	1400	50	ND	10	ND	10	ND	10	ND	10
Benzo(a)anthracene	ug/Kg	ND	10	21	10	10	10	48	10	ND	10	500	50	ND	10	ND	10	ND	10	ND	10
Chrysene	ug/Kg	ND	10	40	10	19	10	60	10	ND	10	700	50	ND	10	ND	10	ND	10	ND	10
Benzo(b)fluoranthene	ug/Kg	ND	20	34	20	32	20	110	20	ND	20	570	20	ND	20	ND	20	ND	20	ND	20
Benzo(k)fluoranthene	ug/Kg	ND	10	16	10	11	10	410	10	ND	10	250	10	ND	10	ND	10	ND	10	ND	10
Benzo(a)pyrene	ug/Kg	ND	10	30	10	20	10	220	10	ND	10	610	50	ND	10	ND	10	ND	10	ND	10
Dibenz(ah)anthracene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	100	ND	20	ND	20	ND	20	ND	20
Benzo(ghi)perylene	ug/Kg	ND	20	26	20	ND	20	70	20	ND	20	540	20	ND	20	ND	20	ND	20	ND	20
Indeno(1,2,3-cd)pyrene	ug/Kg	ND	20	32	20	ND	20	100	20	ND	20	270	20	ND	20	ND	20	ND	20	ND	20
<b>Moisture Content (EPA 160.3)</b>																					
Moisture Content	%	Not Analyzed		Not Analyzed		Not Analyzed		53	0.10	20	0.10	24	0.10	16	0.10	8.0	0.10	Not Analyzed		Not Analyzed	
<b>TEH-Kerosene/Diesel (DHS-LUFT)</b>																					
Kerosene C9-C18	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		34	4.0	2.0	1.0	16	4.0	ND	1.0	2.1	1.0	Not Analyzed		Not Analyzed	
Diesel	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		160.0	4.0	5.2	1.0	82	4.0	3.7	1.0	6.3	1.0	Not Analyzed		Not Analyzed	

\*Lab r  
File: 1 hold time - Sample not analyzed  
Sample Results SC/ContCore

Analytical Data - Sediment Samples  
Continuum - Core Samples

		FlintCC04 (continuous)		FlintCC05 (continuous)		GuadalupeCC01 (continuous)		GuadalupeCC02 (continuous)		GuadalupeCC03 (continuous)		LosCochesCC02 (continuous)		MataderoCC01 (continuous)		RandallCC01 (continuous)		RossCC01 (continuous)		RuckerCC01 (continuous)	
Analyte	units	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
<b>PCBs (8082)</b>																					
PCB-1016	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1221	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1232	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1242	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1248	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1254	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1260	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1262	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1268	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
<b>Organophosphorous Comp. (EPA 8141)</b>																					
Azinphos-methyl	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		ND	40
Bolstar	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Chloropyrifos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Coumaphos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		ND	40
Demeton	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Diazanion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Dichlorvos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Disulfoton	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Ethion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Ethoprop	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
EPN	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Fensulfothion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Fenthion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Malathion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Merphos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Mevinphos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Monocrotophos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		ND	40
Naled	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		ND	40
Parathion-ethyl	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Parathion-methyl	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Phorate	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Ronnel	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Stirophos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		ND	40
Sulfotep	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Tokuthion (Prothiofos)	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Trichloronate	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
<b>PAHs (EPA 8310)</b>																					
Naphthalene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Acenaphthylene	ug/Kg	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500
Acenaphthene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Fluorene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Phenanthrene	ug/Kg	ND	10	ND	10	ND	10	ND	15	ND	10	ND	13	ND	10	ND	10	ND	10	ND	10
Anthracene	ug/Kg	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Flouranthene	ug/Kg	ND	20	ND	20	ND	20	ND	33	ND	20	ND	39	ND	20	ND	20	ND	20	ND	20
Pyrene	ug/Kg	ND	10	ND	10	ND	10	ND	41	ND	10	ND	25	ND	10	ND	20	ND	20	ND	20
Benzo(a)anthracene	ug/Kg	ND	10	ND	10	ND	10	ND	13	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Chrysene	ug/Kg	ND	10	ND	10	ND	10	ND	10	ND	10	ND	15	ND	10	ND	10	ND	10	ND	10
Benzo(b)fluoranthene	ug/Kg	ND	20	ND	20	ND	20	ND	63	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Benzo(k)fluoranthene	ug/Kg	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Benzo(a)pyrene	ug/Kg	ND	10	ND	10	ND	10	ND	64	ND	10	ND	17	ND	10	ND	10	ND	10	ND	10
Dibenz(ah)anthracene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Benzo(ghi)perylene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Indeno(1,2,3-cd)pyrene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
<b>Moisture Content (EPA 160.3)</b>																					
Moisture Content	%	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		33	0.10	28	0.10	42	0.10	33	0.10	16	0.10	24	0.10
<b>TEH-Kerosene/Diesel (DHS-LUFT)</b>																					
Kerosene C9-C18	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		8.7	1.0	3.9	1.0	ND	1.0	17	1.0	ND	1.0	ND	1.0
Diesel	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		51.0	1.0	13.0	1.0	33.0	1.0	31.0	1.0	2.9	1.0	1.2	1.0



2001 Sediment Removal Project -  
Analytical Data for Sediment Samples  
Continuous Core Samples

		SierraCC01 (continuous)	
Analyte	units	results	det. lim.
<b>PCBs (8082)</b>			
PCB-1016	ug/Kg	Not Analyzed	
PCB-1221	ug/Kg	Not Analyzed	
PCB-1232	ug/Kg	Not Analyzed	
PCB-1242	ug/Kg	Not Analyzed	
PCB-1248	ug/Kg	Not Analyzed	
PCB-1254	ug/Kg	Not Analyzed	
PCB-1260	ug/Kg	Not Analyzed	
PCB-1262	ug/Kg	Not Analyzed	
PCB-1268	ug/Kg	Not Analyzed	
<b>Organophosphorous Comp. (EPA 8141)</b>			
Azinphos-methyl	ug/Kg	ND	40
Bolstar	ug/Kg	ND	20
Chloropyrifos	ug/Kg	ND	20
Coumaphos	ug/Kg	ND	40
Demeton	ug/Kg	ND	20
Diazanone	ug/Kg	ND	20
Dichlorvos	ug/Kg	ND	20
Disulfoton	ug/Kg	ND	20
Ethion	ug/Kg	ND	20
Ethoprop	ug/Kg	ND	20
EPN	ug/Kg	ND	20
Fensulfothion	ug/Kg	ND	20
Fenthion	ug/Kg	ND	20
Malathion	ug/Kg	ND	20
Merphos	ug/Kg	ND	20
Mevinphos	ug/Kg	ND	20
Monocrotophos	ug/Kg	ND	40
Naled	ug/Kg	ND	40
Parathion-ethyl	ug/Kg	ND	20
Parathion-methyl	ug/Kg	ND	20
Phorate	ug/Kg	ND	20
Ronnel	ug/Kg	ND	20
Stirophos	ug/Kg	ND	40
Sulfotep	ug/Kg	ND	20
Tokuthion (Prothiofos)	ug/Kg	ND	20
Trichloronate	ug/Kg	ND	20
<b>PAHs (EPA 8310)</b>			
Naphthalene	ug/Kg	ND	100
Acenaphthylene	ug/Kg	ND	500
Acenaphthene	ug/Kg	ND	100
Fluorene	ug/Kg	ND	20
Phenanthrene	ug/Kg	ND	10
Anthracene	ug/Kg	ND	10
Flouranthene	ug/Kg	29	20
Pyrene	ug/Kg	15	10
Benzo(a)anthracene	ug/Kg	12	10
Chrysene	ug/Kg	ND	10
Benzo(b)fluoranthene	ug/Kg	28	20
Benzo(k)fluoranthene	ug/Kg	ND	10
Benzo(a)pyrene	ug/Kg	ND	10
Dibenz(ah)anthracene	ug/Kg	ND	20
Benzo(ghi)perylene	ug/Kg	ND	20
Indeno(1,2,3-cd)pyrene	ug/Kg	ND	20
<b>Moisture Content (EPA 160.3)</b>			
Moisture Content	%	21	0.10
<b>TEH-Kerosene/Diesel (DHS-LUFT)</b>			
Kerosene C9-C18	mg/Kg	1.6	1.0
Diesel	mg/Kg	5.4	1.0

\*Lab r hold time - Sample not analyzed  
File: k Sample Results SC\ContCore

2001 Sediment mobility Project -  
Analytical Data for Sediment Samples  
Continuous Core Samples

		AdobeCC01 (continuous)		BerryMilCC01 (continuous)		BerryMilCC02 (continuous)		BerryCropCC01 (continuous)		BerryPiedCC01 (continuous)		CalabazasCC01 (continuous)		CalabazasCC02 (continuous)		CalabazasCC03 (continuous)		CalabazasCC04 (continuous)		CalabazasCC05 (continuous)	
Analyte	units	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
Total Organic Carbon (EPA 415.2)																					
Total Organic Carbon	mg/Kg	24000	200	Not Analyzed		770	200	1600	200	1200	200	Not Analyzed		Not Analyzed		5900	200	Not Analyzed		Not Analyzed	
Chloride (EPA 325.2)																					
Chloride	mg/Kg	38	1.0	Not Analyzed		120.0	10	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		120	10	Not Analyzed		Not Analyzed	
pH (EPA 9045C)																					
		7.55	0.200	Not Analyzed		8.45	0.200	8.08	0.200	8.38	0.200	Not Analyzed		Not Analyzed		8.44	0.200	Not Analyzed		Not Analyzed	
Sulfide																					
	mg/Kg	ND	10	Not Analyzed		ND	10	ND	10	ND	10	Not Analyzed		Not Analyzed		ND	10	Not Analyzed		Not Analyzed	
Ammonia (EPA 350.1)																					
	mg/Kg	ND	2.0	Not Analyzed		ND	2.0	ND	2.0	ND	2.0	Not Analyzed		Not Analyzed		ND	2.0	Not Analyzed		Not Analyzed	
Chlorinated Herbicides (EPA 8151)																					
2,4-D	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4-DB	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-T	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-TP (Silvex)	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dalapon	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dicamba	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dichlorprop	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dinoseb	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCPA	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCP	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Herbicides (Various)																					
Rodeo, Roundup (Glyphosate)	ug/g	ND	0.050	Not Analyzed		ND	0.050	ND	0.050	ND	0.050	Not Analyzed		Not Analyzed		ND	0.050	Not Analyzed		Not Analyzed	
Rodeo, Roundup (AMPA)		0.091	0.050	Not Analyzed		ND	0.050	ND	0.050	ND	0.050	Not Analyzed		Not Analyzed		ND	0.050	Not Analyzed		Not Analyzed	
Gallery (Isoxaben)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	1.000	Not Analyzed		Not Analyzed	
Surflan (Oryzalin)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Telar (Chlorsulfuron)		Not Analyzed		Not Analyzed		ND	0.100	ND	0.100	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Pendulum (Pendimethalin)		ND	1.000	Not Analyzed		ND	1.000	ND	1.000	ND	1.000	Not Analyzed		Not Analyzed		ND	1.000	Not Analyzed		Not Analyzed	

Analytical Data for Sediment Samples  
Continuous Core Samples

		CalabazasCC06 (continuous)		CalabazasCC07 (continuous)		CalabazasCC08 (continuous)		CaleraMilCC01 (continuous)		CaleraEscCC01 (continuous)		CanoasCC01 (continuous)		CoyoteCC01 (continuous)		FlintCC01 (continuous)		FlintCC02 (continuous)		FlintCC03 (continuous)	
Analyte	units	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
Total Organic Carbon (EPA 415.2)																					
Total Organic Carbon	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed				7900	200	6600	200	3200	200	6000	200	Not Analyzed		Not Analyzed	
Chloride (EPA 325.2)																					
Chloride	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		380	10	Not Analyzed		Not Analyzed		Not Analyzed	
pH (EPA 9045C)																					
		Not Analyzed		Not Analyzed		Not Analyzed		7.40	0.200	7.94	0.200	8.44	0.200	8.26	0.200	8.25	0.200	Not Analyzed		Not Analyzed	
Sulfide																					
	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		120	10	ND	10	140	10	ND	10	ND	10	Not Analyzed		Not Analyzed	
Ammonia (EPA 350.1)																					
	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		ND	2.0	ND	2.0	2.8	2.0	ND	2.0	ND	2.0	Not Analyzed		Not Analyzed	
Chlorinated Herbicides (EPA 8151)																					
2,4-D	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4-DB	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-T	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-TP (Silvex)	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dalapon	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dicamba	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dichlorprop	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dinoseb	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCPA	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCPP	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Herbicides (Various)																					
Rodeo, Roundup (Glyphosate)	ug/g	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		0.140	0.050	Not Analyzed		ND	0.050	Not Analyzed		Not Analyzed	
Rodeo, Roundup (AMPA)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		0.140	0.050	Not Analyzed		ND	0.050	Not Analyzed		Not Analyzed	
Gallery (Isoxaben)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Surflan (Oryzalin)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	5.000	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Telar (Chlorsulfuron)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	0.100	Not Analyzed		Not Analyzed	
Pendulum (Pendimethalin)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	1.000	ND	1.000	Not Analyzed		Not Analyzed	

Analytical Data      Sediment Samples  
Continuo      ore Samples

		FiintCC04 (continuous)		FiintCC05 (continuous)		GuadalupeCC01 (continuous)		GuadalupeCC02 (continuous)		GuadalupeCC03 (continuous)		LosCochesCC02 (continuous)		MataderoCC01 (continuous)		RandolCC01 (continuous)		RossCC01 (continuous)		RuckerCC01 (continuous)	
Analyte	units	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
Total Organic Carbon (EPA 415.2)																					
Total Organic Carbon	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		17000	200	12000	200	13000	200	13000	200	2200	200	2200	200
Chloride (EPA 325.2)																					
Chloride	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		12	1.0	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
pH (EPA 9045C)																					
		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		7.90	0.200	8.01	0.200	7.38	0.200	8.30	0.200	8.53	0.200	7.76	0.200
Sulfide																					
	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	10	ND	10	16	10	320	10	ND	10	ND	10
Ammonia (EPA 350.1)																					
	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	2.0	ND	2.0	4.3	2.0	3.4	2.0	ND	2.0	ND	2.0
Chlorinated Herbicides (EPA 8151)																					
2,4-D	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4-DB	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-T	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-TP (Silvex)	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dalapon	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dicamba	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dichlorprop	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dinoseb	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCPA	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCPP	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Herbicides (Various)																					
Rodeo, Roundup (Glyphosate)	ug/g	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	0.050	ND	0.050	0.110	0.050	Not Analyzed		Not Analyzed		Not Analyzed	
Rodeo, Roundup (AMPA)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	0.050	0.097	0.050	0.089	0.050	Not Analyzed		Not Analyzed		Not Analyzed	
Gallery (Isoxaben)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	1.000	Not Analyzed		ND	1.000	Not Analyzed		Not Analyzed		Not Analyzed	
Surflan (Oryzalin)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	5.000	ND	5.000	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Telar (Chlorsulfuron)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Pendulum (Pendimethalin)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	1.000	Not Analyzed		Not Analyzed		Not Analyzed	

Analytical Data for Sediment Samples  
Continuous Core Samples

		SierraCC01 (continuous)	
Analyte	units	results	det. lim.
Total Organic Carbon (EPA 415.2)			
Total Organic Carbon	mg/Kg	3400	200
Chloride (EPA 325.2)			
Chloride	mg/Kg	Not Analyzed	
pH (EPA 9045C)			
		8.31	0.200
Sulfide			
	mg/Kg	ND	10
Ammonia (EPA 350.1)			
	mg/Kg	ND	2.0
Chlorinated Herbicides (EPA 8151)			
2,4-D	ug/Kg	Not Analyzed	
2,4-DB	ug/Kg	Not Analyzed	
2,4,5-T	ug/Kg	Not Analyzed	
2,4,5-TP (Silvex)	ug/Kg	Not Analyzed	
Dalapon	ug/Kg	Not Analyzed	
Dicamba	ug/Kg	Not Analyzed	
Dichlorprop	ug/Kg	Not Analyzed	
Dinoseb	ug/Kg	Not Analyzed	
MCPA	ug/Kg	Not Analyzed	
MCPB	ug/Kg	Not Analyzed	
Herbicides (Various)			
Rodeo, Roundup (Glyphosate)	ug/g	Not Analyzed	
Rodeo, Roundup (AMPA)		Not Analyzed	
Gallery (Isioxaben)		Not Analyzed	
Surflan (Oryzalin)		Not Analyzed	
Telar (Chlorsulfuron)		Not Analyzed	
Pendulum (Pendimethalin)		Not Analyzed	

2001 Sediment Removal Project -  
Analytical Data for Sediment Samples  
Composite Samples

		Adobe01A (comp A)		BerryMil01 (comp ABC)		BerryMil02 (comp ABC)		BerryCrop01 (comp ABC)		BerryPied01 (comp AB)		Calabazas01 (comp ABCD)		Calabazas02 (comp ABCD)		Calabazas03 (comp ABCD)		Calabazas04 (comp ABCD)		Calabazas05 (comp ABCD)	
Analyte	units	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
Total Metals, TTLC																					
Mercury	mg/Kg	0.6800	0.0038	0.0440	0.0040	0.0530	0.0043	0.1200	0.00380	0.1400	0.0039	0.0680	0.0035	0.0570	0.0041	0.0780	0.0039	0.0480	0.0040	0.0560	0.0041
Antimony	mg/Kg	ND	1.800	ND	1.800	ND	1.700	ND	1.700	ND	1.700	ND	1.900	ND	2.100	ND	2.100	ND	1.900	ND	1.900
Arsenic	mg/Kg	6.300	3.600	5.800	3.500	9.300	3.400	9.100	3.500	10.000	3.400	5.000	3.700	7.300	4.100	6.700	4.300	4.100	3.900	6.000	3.800
Barium	mg/Kg	86.000	4.500	130.000	4.400	88.000	4.300	97.000	4.300	140.000	4.200	110.000	4.600	130.000	5.200	120.000	5.300	110.000	4.900	93.000	4.800
Beryllium	mg/Kg	ND	0.450	ND	0.440	ND	0.430	ND	0.430	ND	0.420	ND	0.460	ND	0.520	ND	0.530	ND	0.490	ND	0.480
Cadmium	mg/Kg	ND	0.550	ND	0.530	ND	0.510	ND	0.520	ND	0.500	ND	0.560	ND	0.620	ND	0.640	ND	0.580	ND	0.580
Chromium	mg/Kg	87.000	5.500	41.000	5.300	30.000	5.100	44.000	5.200	37.000	5.000	56.000	5.600	59.000	6.200	56.000	6.400	59.000	5.800	39.000	5.800
Cobalt	mg/Kg	16.000	0.910	9.200	0.880	7.800	0.850	8.900	0.870	10.000	0.840	15.000	0.930	17.000	1.000	16.000	1.100	15.000	0.970	10.000	0.960
Copper	mg/Kg	31.000	1.800	14.000	1.800	19.000	1.700	28.000	1.700	24.000	1.700	26.000	1.900	27.000	2.100	27.000	2.100	23.000	1.900	19.000	1.900
Lead	mg/Kg	14.000	4.500	7.200	4.400	7.200	4.300	7.400	4.300	7.800	4.200	13.000	4.600	15.000	5.200	13.000	5.300	9.800	4.900	9.900	4.800
Molybdenum	mg/Kg	ND	0.910	ND	0.880	ND	0.850	ND	0.870	ND	0.840	ND	0.930	ND	1.000	ND	1.100	ND	0.970	ND	0.960
Nickel	mg/Kg	62.000	0.910	75.000	0.880	40.000	0.850	51.000	0.870	59.000	0.840	63.000	0.930	66.000	1.000	65.000	1.100	58.000	0.970	46.000	0.960
Selenium	mg/Kg	4.600	4.500	ND	4.400	ND	0.430	ND	4.300	ND	4.200	ND	4.600	ND	5.200	ND	5.300	ND	4.900	ND	4.800
Silver	mg/Kg	ND	1.400	ND	1.300	ND	1.300	ND	1.300	ND	1.300	ND	1.400	ND	1.500	ND	1.600	ND	1.500	ND	1.400
Thallium	mg/Kg	ND	1.600	ND	1.600	1.500	1.500	8.600	1.600	8.300	1.500	ND	1.700	ND	1.900	ND	1.900	ND	1.700	ND	1.700
Vanadium	mg/Kg	71.000	1.400	28.000	1.300	29.000	1.300	39.000	1.300	39.000	1.300	55.000	1.400	56.000	1.500	53.000	1.600	56.000	1.500	38.000	1.400
Zinc	mg/Kg	81.000	6.400	40.000	6.100	41.000	6.000	62.000	6.100	54.000	5.900	75.000	6.500	71.000	7.200	76.000	7.400	67.000	6.800	66.000	6.700
Methyl Mercury, (EPA 1630 Modified)																					
Methyl Mercury	ng/g	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Soluable Metals, STLC																					
Mercury	ug/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Antimony	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Arsenic	ug/L	290.0	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Barium	ug/L	5300.0	200.0	9300.0	200.0	7100.0	200.0	7400.0	200.0	8400.0	200.0	9700.0	200.0	9300.0	200.0	9600.0	200.0	8000.0	200.0	8400.0	200.0
Beryllium	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Cadmium	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Chromium	ug/L	740.0	20.0	210.0	20.0	170.0	20.0	260.0	20.0	230.0	20.0	200.0	20.0	190.0	20.0	190.0	20.0	190.0	20.0	260.0	20.0
Cobalt	ug/L	310.0	80.0	270.0	80.0	190.0	80.0	190.0	80.0	230.0	80.0	610.0	80.0	610.0	80.0	620.0	80.0	480.0	80.0	430.0	80.0
Copper	ug/L	ND	20.0	43.0	20.0	260.0	20.0	330.0	20.0	340.0	20.0	600.0	20.0	530.0	20.0	560.0	20.0	450.0	20.0	52.0	20.0
Lead	ug/L	ND	200.0	260.0	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	210.0	200.0	220.0	200.0	210.0	200.0	310.0	200.0
Molybdenum	ug/L	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0
Nickel	ug/L	640.0	80.0	1100.0	80.0	610.0	80.0	1400.0	80.0	1200.0	80.0	920.0	80.0	910.0	80.0	880.0	80.0	760.0	80.0	710.0	80.0
Selenium	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Silver	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Thallium	ug/L	860.0	200.0	340.0	200.0	ND	200.0	ND	200.0	ND	200.0	220.0	200.0	ND	200.0	200.0	200.0	ND	200.0	300.0	200.0
Vanadium	ug/L	860.0	80.0	470.0	80.0	280.0	80.0	170.0	80.0	180.0	80.0	520.0	80.0	470.0	80.0	460.0	80.0	370.0	80.0	540.0	80.0
Zinc	ug/L	3400.0	20.0	2200.0	20.0	1600.0	20.0	1400.0	20.0	1200.0	20.0	3900.0	20.0	3400.0	20.0	3700.0	20.0	3200.0	20.0	4300.0	20.0
Pesticides (EPA 8081)																					
Aldrin	ug/Kg	ND	10.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
alpha-BHC	ug/Kg	ND	10.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
beta-BHC	ug/Kg	ND	10.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
delta-BHC	ug/Kg	ND	10.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
gamma-BHC	ug/Kg	ND	10.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlordane (tech)	ug/Kg	ND	200.0	ND	20.0	ND	200.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
4,4-DDD	ug/Kg	ND	60.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
4,4-DDE	ug/Kg	ND	20.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	3.2	2.0	4.0	2.0	ND	2.0	4.1	2.0
4,4-DDT	ug/Kg	ND	60.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Dieldrin	ug/Kg	ND	20.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan I	ug/Kg	ND	20.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan II	ug/Kg	ND	20.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan sulfate	ug/Kg	ND	60.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Endrin	ug/Kg	ND	20.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endrin aldehyde	ug/Kg	ND	60.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Endrin keytone	ug/Kg	ND	60.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Heptachlor	ug/Kg	ND	10.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Heptachlor epoxide	ug/Kg	ND	10.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methoxychlor	ug/Kg	ND	200.0	ND	20.0	ND	200.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Toxaphene	ug/Kg	ND	800.0	ND	80.0	ND	800.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0

\*Lab missed hold time - Sample not analyzed  
File: ks12001 Sample Results SC1Comps

**2001 Sediment Removal Project -  
Analytical Data for Sediment Samples  
Composite Samples**

		Calabazas06 (comp ABCD)		Calabazas07 (comp ABCD)		Calabazas08 (comp AB)		CaleraMil01 (comp A)		CaleraEsc01 (comp A)		Canoas01 (comp ABCD)		Coyote01 (comp A)		Guadalupe01 (comp ABCD)		Guadalupe02 (comp ABCD)		Guadalupe03 (comp AB)		
Analyte	units	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	
Total Metals, TTLC																						
Mercury	mg/Kg	0.026	0.0035	0.0200	0.0042	0.0240	0.0035	0.0470	0.0044	ND	0.0044	0.180	0.0033	0.1300	0.0034	2.000	0.021	2.600	0.021	3.100	0.039	
Antimony	mg/Kg	ND	2.0	ND	1.900	1.800	1.800	1.700	1.600	ND	1.600	ND	1.800	ND	1.800	ND	1.800	ND	1.700	ND	1.800	
Arsenic	mg/Kg	5.200	4.1	ND	3.700	7.200	3.600	8.600	3.300	4.800	3.200	4.100	3.500	9.100	3.500	13.000	3.600	11.000	3.400	11.000	3.600	
Barium	mg/Kg	72.000	5.1	39.000	4.700	80.000	4.500	160.000	4.100	120.000	4.000	120.000	4.400	88.000	4.400	120.000	4.500	120.000	4.300	160.000	4.500	
Beryllium	mg/Kg	ND	0.51	ND	0.470	ND	0.450	ND	0.410	ND	0.400	ND	0.440	ND	0.440	ND	0.450	ND	0.430	ND	0.450	
Cadmium	mg/Kg	ND	0.61	ND	0.560	ND	0.550	ND	0.490	ND	0.480	ND	0.530	ND	0.530	ND	0.540	ND	0.520	0.800	0.540	
Chromium	mg/Kg	61.000	6.1	31.000	5.600	84.000	5.500	37.000	4.900	28.000	4.800	78.000	5.300	47.000	5.300	65.000	5.400	61.000	5.200	77.000	5.400	
Cobalt	mg/Kg	12.000	1.0	7.600	0.930	14.000	0.910	8.700	0.810	7.000	0.800	18.000	0.880	8.700	0.880	13.000	0.900	14.000	0.860	16.000	0.900	
Copper	mg/Kg	20.000	2.0	11.000	1.900	34.000	1.800	17.000	1.600	13.000	1.600	29.000	1.800	23.000	1.800	29.000	1.800	30.000	1.700	49.000	1.800	
Lead	mg/Kg	6.500	5.1	4.800	4.700	6.400	4.500	7.700	4.100	4.600	4.000	29.000	4.400	16.000	4.400	20.000	4.500	25.000	4.300	58.000	4.500	
Molybdenum	mg/Kg	ND	1.0	ND	0.930	ND	0.910	ND	0.810	ND	0.800	ND	0.880	ND	0.880	ND	0.900	ND	0.860	ND	0.900	
Nickel	mg/Kg	48.000	1.0	36.000	0.930	65.000	0.910	46.000	0.810	35.000	0.800	110.000	0.880	56.000	0.880	86.000	0.900	86.000	0.860	110.000	0.900	
Selenium	mg/Kg	ND	5.1	ND	4.700	ND	4.500	ND	4.100	ND	4.000	ND	4.400	ND	4.400	ND	4.500	ND	4.300	ND	4.500	
Silver	mg/Kg	ND	1.5	ND	1.400	ND	1.400	ND	1.200	ND	1.200	ND	1.300	ND	1.300	ND	1.400	ND	1.300	ND	1.400	
Thallium	mg/Kg	ND	1.8	ND	1.700	ND	1.600	ND	1.500	ND	1.400	5.500	1.600	6.200	1.600	6.100	1.600	4.300	1.600	4.700	1.600	
Vanadium	mg/Kg	54.000	1.5	31.000	1.400	61.000	1.400	33.000	1.200	27.000	1.200	30.000	1.300	31.000	1.300	41.000	1.400	44.000	1.300	48.000	1.400	
Zinc	mg/Kg	54.000	7.1	33.000	6.500	59.000	6.400	47.000	5.700	35.000	5.600	150.000	6.100	72.000	6.100	72.000	6.300	74.000	6.000	160.000	6.300	
Methyl Mercury, (EPA 1630 Modified)																						
Methyl Mercury	ng/g	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		2.898		0.070		0.217		0.070		
Soluable Metals, STLC																						
Mercury	ug/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.00	ND	1.0	ND	1.0	ND	1.0	ND	1.00	
Antimony	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.00	
Arsenic	ug/L	310.0	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	880.0	200.00	
Barium	ug/L	5300.0	200.0	5700.0	200.0	5000.0	200.0	12000.0	200.0	8100.0	200.0	8200.0	200.0	7300.0	200.0	8600.0	200.0	8200.0	200.0	11000.0	200.00	
Beryllium	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.00	
Cadmium	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	49.0	20.00	
Chromium	ug/L	110.0	20.0	97.0	20.0	92.0	20.0	110.0	20.0	68.0	20.0	890.0	20.0	340.0	20.0	290.0	20.0	390.0	20.0	770.0	20.00	
Cobalt	ug/L	160.0	80.0	150.0	80.0	120.0	80.0	280.0	80.0	200.0	80.0	670.0	80.0	310.0	80.0	440.0	80.0	510.0	80.0	660.0	80.00	
Copper	ug/L	120.0	20.0	110.0	20.0	94.0	20.0	270.0	20.0	240.0	20.0	20.0	20.0	ND	20.0	470.0	20.0	660.0	20.0	1600.0	20.00	
Lead	ug/L	ND	200.0	ND	200.0	ND	200.0	300.0	200.0	ND	200.0	730.0	200.0	750.0	200.0	450.0	200.0	640.0	200.0	2500.0	200.00	
Molybdenum	ug/L	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.00	
Nickel	ug/L	310.0	80.0	320.0	80.0	240.0	80.0	590.0	80.0	390.0	80.0	2500.0	80.0	800.0	80.0	1200.0	80.0	1500.0	80.0	2300.0	80.00	
Selenium	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.00	
Silver	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.00	
Thallium	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	230.0	200.0	660.0	200.0	680.0	200.0	250.0	200.0	350.0	200.0	510.0	200.00
Vanadium	ug/L	170.00	80.0	150.0	80.0	120.0	80.0	400.0	80.0	320.0	80.0	570.0	80.0	360.0	80.0	360.0	80.0	440.0	80.0	750.0	80.00	
Zinc	ug/L	1700.00	20.0	1700.0	20.0	1400.0	20.0	3300.0	20.0	1500.0	20.0	11000.0	20.0	3400.0	20.0	1700.0	20.0	2400.0	20.0	9000.0	20.00	
Pesticides (EPA 8081)																						
Aldrin	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	
alpha-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	
beta-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	
delta-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	
gamma-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	
Chlordane (tech)	ug/Kg	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	
4,4-DDD	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	
4,4-DDE	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	3.0	16	2.0	6.6	2.0	11	2.0	
4,4-DDT	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	19	6.0	7.7	6.0	ND	6.0	
Dieldrin	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	
Endosulfan I	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	
Endosulfan II	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	
Endosulfan sulfate	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	
Endrin	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	
Endrin aldehyde	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	
Endrin ketone	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	
Heptachlor	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	
Heptachlor epoxide	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	
Methoxychlor	ug/Kg	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	
Toxaphene	ug/Kg	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	

\*Lab mi File: ks  
old time - Sample not analyzed  
Sample Results SC/Comps



2001 Sediment Removal Project -  
Analytical Data for Sediment Samples  
Composite Samples

		LosCoches01 (comp AB)		Matadero01 (comp ABCD)		Randol01 (comp A)		Ross01 (comp A)		Rucker01 (comp A)		Sierra01 (comp A)	
Analyte	units	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
Total Metals, TTLC													
Mercury	mg/Kg	0.0500	0.0046	0.0670	0.0036	1.800	0.018	0.0260	0.0036	0.0240	0.0041	0.0220	0.0036
Antimony	mg/Kg	ND	1.700	ND	1.800	1.800	1.700	ND	1.800	ND	1.800	ND	1.800
Arsenic	mg/Kg	7.200	3.400	6.200	3.600	8.600	3.400	7.200	3.600	8.100	3.600	ND	3.500
Barium	mg/Kg	98.000	4.200	92.000	4.500	83.000	4.300	79.000	4.500	110.000	4.500	55.000	4.400
Beryllium	mg/Kg	ND	0.420	ND	0.450	ND	0.430	ND	0.450	ND	0.450	ND	0.440
Cadmium	mg/Kg	0.510	0.510	ND	0.550	ND	0.510	0.540	0.540	ND	0.540	ND	0.530
Chromium	mg/Kg	27.000	5.100	51.000	5.500	350.000	5.100	45.000	5.400	34.000	5.400	370.000	5.300
Cobalt	mg/Kg	9.800	0.850	12.000	0.910	29.000	0.850	14.000	0.890	7.500	0.890	21.000	0.880
Copper	mg/Kg	13.000	1.700	20.000	1.800	22.000	1.700	20.000	1.800	17.000	1.800	12.000	1.800
Lead	mg/Kg	6.000	4.200	17.000	4.500	15.000	4.300	15.000	4.500	10.000	4.500	ND	4.400
Molybdenum	mg/Kg	ND	0.850	ND	0.910	ND	0.850	ND	0.890	ND	0.890	ND	0.880
Nickel	mg/Kg	43.000	0.850	53.000	0.910	410.000	0.850	68.000	0.890	27.000	0.890	540.000	0.880
Selenium	mg/Kg	ND	4.200	ND	4.500	ND	4.300	ND	4.500	ND	4.500	ND	4.400
Silver	mg/Kg	ND	1.300	ND	1.400	ND	1.300	ND	1.300	ND	1.300	ND	1.300
Thallium	mg/Kg	ND	1.500	ND	1.600	13.000	1.500	2.100	1.600	2.000	1.600	6.300	1.600
Vanadium	mg/Kg	27.000	1.300	40.000	1.400	45.000	1.300	51.000	1.300	28.000	1.300	22.000	1.300
Zinc	mg/Kg	34.000	5.900	64.000	6.400	90.000	6.000	100.000	6.200	40.000	6.200	43.000	6.200
Methyl Mercury, (EPA 1630 Modified)													
Methyl Mercury	ng/g	Not Analyzed		Not Analyzed		0.225	0.070	Not Analyzed		Not Analyzed		Not Analyzed	
Soluable Metals, STLC													
Mercury	ug/L	ND	1.00	ND	1.00	ND	1.00	ND	1.00	ND	1.0	ND	1.0
Antimony	ug/L	ND	200.00	ND	200.00	ND	200.00	ND	200.00	ND	200.0	ND	200.0
Arsenic	ug/L	350.0	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Barium	ug/L	7600.0	200.0	5900.0	200.0	6100.0	200.0	6000.0	200.0	11000.0	200.0	7200.0	200.0
Beryllium	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Cadmium	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	25.0	20.0
Chromium	ug/L	78.0	20.0	930.0	20.0	1800.0	20.0	610.0	20.0	73.0	20.0	230.0	20.0
Cobalt	ug/L	230.0	80.0	360.0	80.0	1300.0	80.0	340.0	80.0	540.0	80.0	190.0	80.0
Copper	ug/L	110.0	20.0	24.0	20.0	240.0	20.0	130.0	20.0	190.0	20.0	220.0	20.0
Lead	ug/L	ND	200.0	250.0	200.0	270.0	200.0	370.0	200.0	220.0	200.0	ND	200.0
Molybdenum	ug/L	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0
Nickel	ug/L	490.0	80.0	1100.0	80.0	6300.0	80.0	1300.0	80.0	450.0	80.0	950.0	80.0
Selenium	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Silver	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Thallium	ug/L	ND	200.0	690.0	200.0	870.0	200.0	330.0	200.0	ND	200.0	ND	200.0
Vanadium	ug/L	210.0	80.0	970.0	80.0	650.0	80.0	350.0	80.0	330.0	80.0	140.0	80.0
Zinc	ug/L	1400.0	20.0	4000.0	20.0	4900.0	20.0	4000.0	20.0	870.0	20.0	1700.0	20.0
Pesticides (EPA 8081)													
Aldrin	ug/Kg	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
alpha-BHC	ug/Kg	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
beta-BHC	ug/Kg	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
delta-BHC	ug/Kg	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
gamma-BHC	ug/Kg	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlordane (tech)	ug/Kg	ND	20.0	ND	200.0	ND	20.0	ND	20.0	ND	1.0	ND	1.0
4,4-DDD	ug/Kg	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
4,4-DDE	ug/Kg	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
4,4-DDT	ug/Kg	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Dieldrin	ug/Kg	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan I	ug/Kg	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan II	ug/Kg	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan sulfate	ug/Kg	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Endrin	ug/Kg	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endrin aldehyde	ug/Kg	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Endrin keytone	ug/Kg	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Heptachlor	ug/Kg	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Heptachlor epoxide	ug/Kg	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methoxychlor	ug/Kg	ND	20.0	ND	200.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Toxaphene	ug/Kg	ND	80.0	ND	800.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0

\*Lab missed hold time - Sample not analyzed

File: ks\2001 Sample Results SC\Comps



**2001 Sediment Removal Project -  
Analytical Data for Sediment Samples  
Composite Samples**

		Adobe01A (comp A)		BerryMil01 (comp ABC)		BerryMil02 (comp ABC)		BerryCrop01 (comp ABC)		BerryPled01 (comp AB)		Calabazas01 (comp ABCD)		Calabazas02 (comp ABCD)		Calabazas03 (comp ABCD)		Calabazas04 (comp ABCD)		Calabazas05 (comp ABCD)	
Analyte	units	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
<b>PCBs (8082)</b>																					
PCB-1016	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1221	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1232	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1242	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1248	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1254	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1260	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1262	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1268	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
<b>Organophosphorous Comp. (EPA 8141)</b>																					
Azinphos-methyl	ug/Kg	Not Analyzed		ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40
Bolstar	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Chloropyrifos	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Coumaphos	ug/Kg	Not Analyzed		ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40
Demeton	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Diazanone	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Dichlorvos	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Disulfoton	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Ethion	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Ethoprop	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
EPN	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Fensulfthion	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Fenthion	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Malathion	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Merphos	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Mevinphos	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Monocrotophos	ug/Kg	Not Analyzed		ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40
Naled	ug/Kg	Not Analyzed		ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40
Parathion-ethyl	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Parathion-methyl	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Phorate	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Ronnel	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Stirophos	ug/Kg	Not Analyzed		ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40
Sulfotep	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Tokuthion (Prothiofos)	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Trichloronate	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
<b>PAHs (EPA 8310)</b>																					
Naphthalene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Acenaphthylene	ug/Kg	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500
Acenaphthene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Fluorene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Phenanthrene	ug/Kg	66.0	10	23	10	ND	10	ND	10	ND	10	40	10	170	10	30	10	19	10	47	10
Anthracene	ug/Kg	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	15	10	ND	10	ND	10	ND	10
Flouranthene	ug/Kg	180.0	20	98	20	ND	20	ND	20	ND	20	110	20	300	20	83	20	54	20	150	20
Pyrene	ug/Kg	140.0	10	76	10	ND	10	ND	10	ND	10	110	10	260	10	73	10	47	10	130	10
Benzo(a)anthracene	ug/Kg	56.0	10	28	10	ND	10	ND	10	ND	10	29	10	71	10	22	10	12	10	37	10
Chrysene	ug/Kg	85.0	10	59	10	ND	10	ND	10	ND	10	63	10	110	10	53	10	36	10	74	10
Benzo(b)fluoranthene	ug/Kg	80.0	20	64	20	26	20	ND	20	ND	20	75	20	91	20	60	20	38	20	100	20
Benzo(k)fluoranthene	ug/Kg	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	46	10	ND	10	ND	10	ND	10
Benzo(a)pyrene	ug/Kg	ND	10	ND	10	ND	10	ND	10	ND	10	55	10	96	10	45	10	25	10	ND	10
Dibenz(ah)anthracene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Benzo(ghi)perylene	ug/Kg	76.0	20	57	20	ND	20	ND	20	ND	20	76	20	84	20	49	20	24	20	70	20
Indeno(1,2,3-cd)pyrene	ug/Kg	90.0	20	ND	20	ND	20	ND	20	ND	20	49	20	62	20	51	20	40	20	ND	20
<b>Moisture Content (EPA 160.3)</b>																					
Moisture Content	%	42.0	0.10	27.0	0.10	9.7	0.10	4.2	0.10	2.9	0.10	87	0.10	83	0.10	89	0.10	92	0.10	76	0.10
<b>TEH-Kerosene/Diesel (DHS-LUFT)</b>																					
Kerosene C9-C18	mg/Kg	30	10	1.5	1.0	4.8	1.0	3.5	1.0	5.8	1.0	2.6	1.0	2.9	1.0	3.2	1.0	2.4	1.0	5.6	1.0
Diesel	mg/Kg	150.0	10	9.3	1.0	22.0	1.0	7.2	1.0	9.2	1.0	19.0	1.0	20.0	1.0	21.0	1.0	16.0	1.0	39.0	1.0

\*Lab m<sup>l</sup> hold time - Sample not analyzed  
File: ks. Sample Results SC/Comps

2001 Sediment Core Project -  
Analytical Data for Sediment Samples  
Composite Samples

		Calabazas06 (comp ABCD)		Calabazas07 (comp ABCD)		Calabazas08 (comp AB)		CaleraMil01 (comp A)		CaleraEsc01 (comp A)		Canoas01 (comp ABCD)		Coyote01 (comp A)		Guadalupe01 (comp ABCD)		Guadalupe02 (comp ABCD)		Guadalupe03 (comp AB)	
Analyte	units	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
<b>PCBs (8082)</b>																					
PCB-1016	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1221	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1232	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1242	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1248	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1254	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1260	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1262	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1268	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
<b>Organophosphorous Comp. (EPA 8141)</b>																					
Azinphos-methyl	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	ND	40	ND	40	ND	40
Bolstar	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Chloropyrifos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Coumaphos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	ND	40	ND	40	ND	40
Demeton	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Diazanone	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Dichlorvos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Disulfoton	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Ethion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Ethoprop	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
EPN	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Fensulfothion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Fenthion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Malathion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Merphos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Mevinphos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Monocrotophos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	ND	40	ND	40	ND	40
Naled	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	ND	40	ND	40	ND	40
Parathion-ethyl	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Parathion-methyl	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Phorate	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Ronnel	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Stirophos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	ND	40	ND	40	ND	40
Sulfotep	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Tokuthion (Prothiofos)	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Trichloronate	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
<b>PAHs (EPA 8310)</b>																					
Naphthalene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Acenaphthylene	ug/Kg	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500
Acenaphthene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Fluorene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Phenanthrene	ug/Kg	39	10	16	10	ND	10	ND	10	ND	10	130	10	ND	10	33	10	120	10	150	10
Anthracene	ug/Kg	10	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	30	10	ND	10
Flouranthene	ug/Kg	200	20	38	20	ND	20	ND	20	ND	20	330	20	ND	20	66	20	270	20	390	20
Pyrene	ug/Kg	160	10	39	10	ND	10	ND	10	ND	10	290	10	15	10	77	10	290	10	350	10
Benzo(a)anthracene	ug/Kg	74	10	16	10	ND	10	ND	10	ND	10	94	10	ND	10	26	10	120	10	93	10
Chrysene	ug/Kg	100	10	23	10	ND	10	ND	10	ND	10	150	10	ND	10	42	10	150	10	180	10
Benzo(b)fluoranthene	ug/Kg	110	20	ND	20	ND	20	ND	20	ND	20	170	20	ND	20	38	20	100	20	220	20
Benzo(k)fluoranthene	ug/Kg	52	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	18	10	49	10	91	10
Benzo(a)pyrene	ug/Kg	120	10	22	10	ND	10	ND	10	ND	10	150	10	12	10	45	10	130	10	190	10
Dibenz(ah)anthracene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Benzo(ghi)perylene	ug/Kg	100	20	ND	20	ND	20	ND	20	ND	20	200	20	ND	20	49	20	110	20	250	20
Indeno(1,2,3-cd)pyrene	ug/Kg	86	20	ND	20	ND	20	ND	20	ND	20	47	20	ND	20	52	20	120	20	260	20
<b>Moisture Content (EPA 160.3)</b>																					
Moisture Content	%	87	0.10	90	0.10	94	0.10	28	0.10	18	0.10	27	0.10	20	0.10	8.7	0.10	16	0.10	12	0.10
<b>TEH-Kerosene/Diesel (DHS-LUFT)</b>																					
Kerosene C9-C18	mg/Kg	1.5	1.0	ND	1.0	ND	1.0	1.6	1.0	2.2	1.0	31	4.0	1.1	1.0	5.7	1.0	4.5	1.0	9.3	1.0
Diesel	mg/Kg	11.0	1.0	6.0	1.0	6.2	1.0	14.0	1.0	4.9	1.0	150.0	4.0	5.6	1.0	15.0	1.0	21.0	1.0	47.0	1.0

\*Lab missed hold time - Sample not analyzed  
File: ks\2001 Sample Results SC\Comps

2001 Sediment Removal Project -  
Analytical Data for Sediment Samples  
Composite Samples

		LosCoche01 (comp AB)		Matadero01 (comp ABCD)		Randol01 (comp A)		Ross01 (comp A)		Rucker01 (comp A)		Sierra01 (comp A)	
Analyte	units	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
<b>PCBs (8082)</b>													
PCB-1016	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1221	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1232	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1242	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1248	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1254	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1260	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1262	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1268	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
<b>Organophosphorous Comp. (EPA 8141)</b>													
Azinphos-methyl	ug/Kg	ND	40	Not Analyzed		Not Analyzed		Not Analyzed		ND	40	ND	40
Bolstar	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Chloropyrifos	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Coumaphos	ug/Kg	ND	40	Not Analyzed		Not Analyzed		Not Analyzed		ND	40	ND	40
Demeton	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Diazanone	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Dichlorvos	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Disulfoton	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Ethion	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Ethoprop	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
EPN	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Fensulfothion	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Fenthion	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Malathion	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Merphos	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Mevinphos	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Monocrotophos	ug/Kg	ND	40	Not Analyzed		Not Analyzed		Not Analyzed		ND	40	ND	40
Naled	ug/Kg	ND	40	Not Analyzed		Not Analyzed		Not Analyzed		ND	40	ND	40
Parathion-ethyl	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Parathion-methyl	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Phorate	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Ronnel	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Stirophos	ug/Kg	ND	40	Not Analyzed		Not Analyzed		Not Analyzed		ND	40	ND	40
Sulfotep	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Tokuthion (Prothiofos)	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Trichloronate	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
<b>PAHs (EPA 8310)</b>													
Naphthalene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Acenaphthylene	ug/Kg	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500
Acenaphthene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Fluorene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Phenanthrene	ug/Kg	ND	10	310	10	ND	10	ND	10	ND	10	ND	10
Anthracene	ug/Kg	ND	10	32	10	ND	10	ND	10	ND	10	ND	10
Flouranthene	ug/Kg	ND	20	770	20	ND	20	ND	20	ND	20	ND	20
Pyrene	ug/Kg	ND	10	650	20	ND	10	ND	10	ND	10	ND	10
Benzo(a)anthracene	ug/Kg	ND	10	200	10	ND	10	ND	10	ND	10	ND	10
Chrysene	ug/Kg	ND	10	360	10	ND	10	ND	10	ND	10	ND	10
Benzo(b)fluoranthene	ug/Kg	ND	20	360	20	ND	20	ND	20	ND	20	ND	20
Benzo(k)fluoranthene	ug/Kg	ND	10	230	10	ND	10	ND	10	ND	10	ND	10
Benzo(a)pyrene	ug/Kg	ND	10	430	20	ND	10	19	10	ND	10	ND	10
Dibenz(ah)anthracene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Benzo(ghi)perylene	ug/Kg	ND	20	270	20	ND	20	ND	20	ND	20	ND	20
Indeno(1,2,3-cd)pyrene	ug/Kg	ND	20	250	20	ND	20	ND	20	ND	20	ND	20
<b>Moisture Content (EPA 160.3)</b>													
Moisture Content	%	20	0.10	31	0.10	18	0.10	7.1	0.10	16	0.10	20	0.10
<b>TEH-Kerosene/Diesel (DHS-LUFT)</b>													
Kerosene C9-C10	mg/Kg	3.4	1.0	4.2	1.0	2.6	1.0	ND	1.0	1.1	1.0	1.1	1.0
Diesel	mg/Kg	10.0	1.0	37.0	1.0	11.0	1.0	3.6	1.0	2.7	1.0	5.5	1.0

\*Lab m\* hold time - Sample not analyzed  
File: k sample Results SCIComps

2001 Sediment Analysis Project -  
Analytical Data for Sediment Samples  
Composite Samples

		Adobe01A (comp A)		BerryMil01 (comp ABC)		BerryMil02 (comp ABC)		BerryCrop01 (comp ABC)		BerryPied01 (comp AB)		Calabazas01 (comp ABCD)		Calabazas02 (comp ABCD)		Calabazas03 (comp ABCD)		Calabazas04 (comp ABCD)		Calabazas05 (comp ABCD)	
Analyte	units	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
Total Organic Carbon (EPA 415.2)																					
Total Organic Carbon	mg/Kg	18000	200	7600	200	2300	200	ND	200	2000	200	13000	200	12000	200	10000	200	6800	200	10000	200
Chloride (EPA 325.2)																					
Chloride	mg/Kg	35.0	1.0	230.0	10	110.0	10	Not Analyzed		Not Analyzed		120	10	150	10	92	10	120	10	130	10
pH (EPA 9045C)																					
		7.70	0.200	7.93	0.200	8.98	0.200	8.70	0.200	8.08	0.200	8.10	0.200	8.10	0.200	8.15	0.200	8.12	0.200	7.80	0.200
Sulfide																					
	mg/Kg	64	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Ammonia (EPA 350.1)																					
	mg/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Chlorinated Herbicides (EPA 8151)																					
2,4-D	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4-DB	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-T	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-TP (Silvex)	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dalapon	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dicamba	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dichlorprop	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dinoseb	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCPA	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCP	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Herbicides (Various)																					
Rodeo, Roundup	ug/g	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
AMPA		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Gallery		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Surflan		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Telar		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Pendulum		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	

**2001 Sediment Removal Project -  
Analytical Data for Sediment Samples  
Composite Samples**

		Calabazas06 (comp ABCD)		Calabazas07 (comp ABCD)		Calabazas08 (comp AB)		CaleraMil01 (comp A)		CaleraEsc01 (comp A)		Canoas01 (comp ABCD)		Coyote01 (comp A)		Guadalupe01 (comp ABCD)		Guadalupe02 (comp ABCD)		Guadalupe03 (comp AB)	
Analyte	units	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
<b>Total Organic Carbon (EPA 415.2)</b>																					
Total Organic Carbon	mg/Kg	2200	200	2500	200	2500	200	*		13000	200	22000	200	12000	200	9100	200	9500	200	23000	200
<b>Chloride (EPA 325.2)</b>																					
Chloride	mg/Kg	200	10	130	10	79	10	Not Analyzed		Not Analyzed		Not Analyzed		41	1.0	180	10	170	10	7.1	1.0
<b>pH (EPA 9045C)</b>																					
		8.51	0.200	9.21	0.200	9.34	0.200	8.18	0.200	8.38	0.200	7.92	0.200	8.38	0.200	8.17	0.200	7.98	0.200	7.90	0.200
<b>Sulfide</b>																					
	mg/Kg	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
<b>Ammonia (EPA 350.1)</b>																					
	mg/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	21	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
<b>Chlorinated Herbicides (EPA 8151)</b>																					
2,4-D	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4-DB	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-T	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-TP (Silvex)	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dalapon	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dicamba	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dichlorprop	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dinoseb	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCPA	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCP	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
<b>Herbicides (Various)</b>																					
Rodeo, Roundup	ug/g	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
AMPA		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Gallery		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Surflan		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Telar		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Pendulum		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	

2001 Sediment Remedial Project -  
Analytical Data for Sediment Samples  
Composite Samples

		LosCoches01 (comp AB)		Matadero01 (comp ABCD)		Randol01 (comp A)		Ross01 (comp A)		Rucker01 (comp A)		Sierra01 (comp A)	
Analyte	units	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
<b>Total Organic Carbon (EPA 415.2)</b>													
Total Organic Carbon	mg/Kg	2300	200	13000	200	9300	200	1600	200	4000	200	2000	200
<b>Chloride (EPA 325.2)</b>													
Chloride	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
<b>pH (EPA 9045C)</b>													
		8.08	0.200	7.63	0.200	8.17	0.200	8.46	0.200	7.93	0.200	8.45	0.200
<b>Sulfide</b>													
	mg/Kg	ND	10	ND	10	160	10	ND	10	ND	10	ND	10
<b>Ammonia (EPA 350.1)</b>													
	mg/Kg	ND	2.0	10	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
<b>Chlorinated Herbicides (EPA 8151)</b>													
2,4-D	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4-DB	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-T	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-TP (Silvex)	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dalapon	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dicamba	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dichlorprop	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dinoseb	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCPA	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCPP	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
<b>Herbicides (Various)</b>													
Rodeo, Roundup	ug/g	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
AMPA		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Gallery		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Surflan		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Telar		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Pendulum		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	

## **APPENDIX B**



**ETS**1343 Redwood Way  
Petaluma, CA 94954

(707) 795-9605/FAX 795-9384

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COMPANY: Sequoia Analytical, 885 Jarvis Drive, Morgan Hill, CA 95037			ANALYST(S)		SUPERVISOR
ATTN: Jeff Smyly			DATE	DATE	DATE of
SITE LOCATION: Adobe; California			COLLECTED	RECEIVED	REPORT
			6/6/01	6/13/01	7/3/01
			S. Banwait		D. Jacobson
			R. Conrad		LAB DIRECTOR
			J. Nelson		G. Conrad PhD

**HYDROMETER & SIEVE ANALYSIS REPORT**

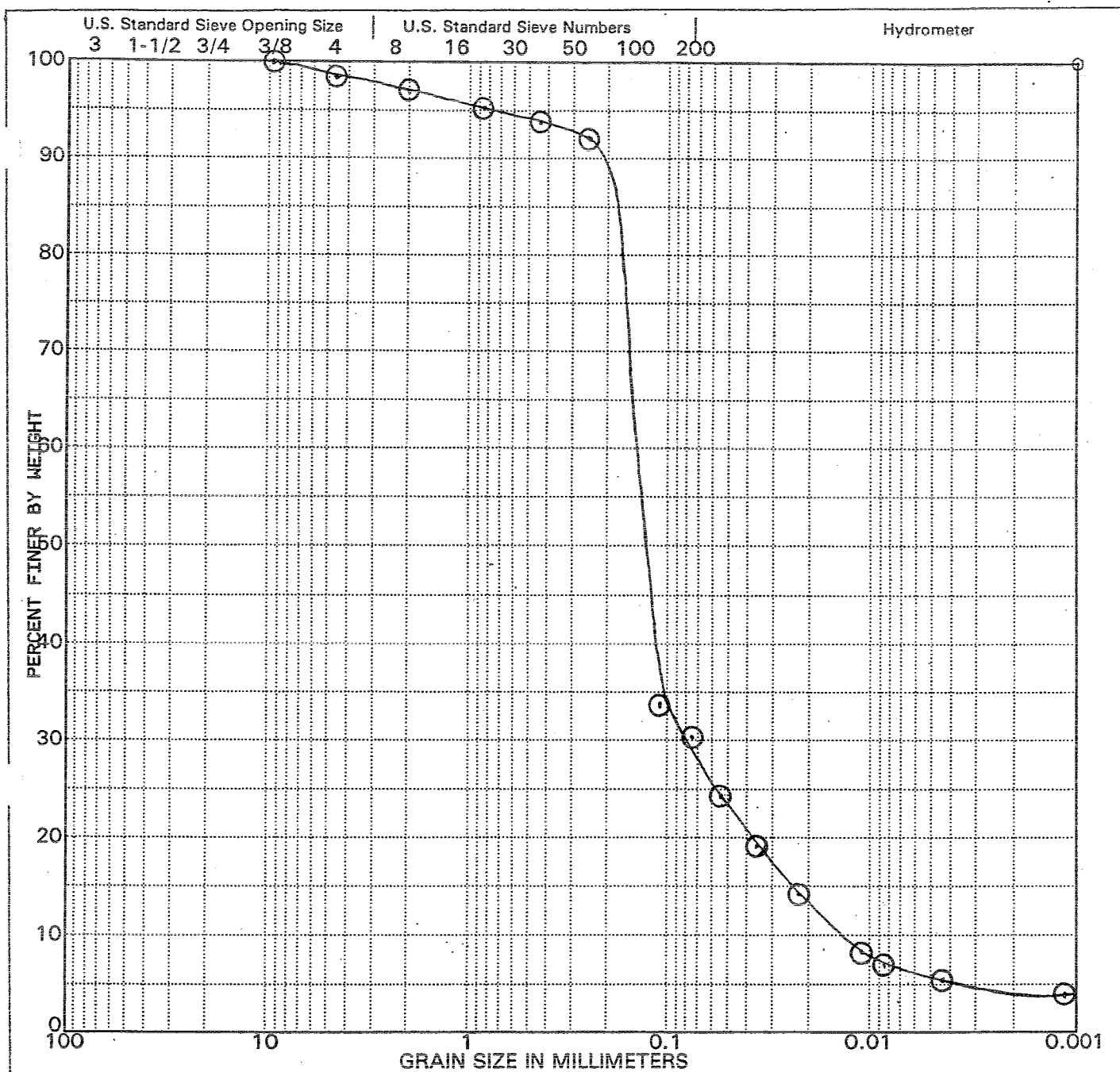
	LAB NUMBER: 01-06-0143    SAMPLE ID: MKF0118-01				LAB NUMBER: 01-06-0144    SAMPLE ID: MKF0118-03			
SIEVE SIZE (SCREEN #)	FINES PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM
3/4" Sieve		100.00	0.00	Coarse Gravel		100.00	0.00	Coarse Gravel
3/8" Sieve		100.00	0.00	Fine Gravel		75.60	0.00	Fine Gravel
Sieve #4		98.18	1.82			59.29	4.95	
Sieve #10		97.03	1.15	Coarse Sand		28.53	2.68	Coarse Sand
Sieve #20		95.35	1.68	Medium Sand		9.40	2.73	Medium Sand
Sieve #40		93.79	1.56			2.13	2.88	
Sieve #60		92.39	1.40	Fine Sand		0.33	12.84	Fine Sand
Sieve #140		33.98	58.41			0.12	50.39	
Sieve #200		30.17	3.81			0.08	6.84	
SILT (0.074)	✓ 24.51			SILT (0.074)	✓ 13.82			Mud
CLAY (0.005)	5.66	Grvl Total-> 1.82		CLAY (0.005)	2.87	Grvl Total-> 4.95		(Silt & Clay)
		Sand Total-> 68.01				Sand Total-> 78.36		
		Fines Total-> 30.17				Fines Total-> 16.69		
		Sum Total-> 100.00				Sum Total-> 100.00		

**COMMENTS**

Both of these samples not only classify as silty sand, but are very similar overall as well with relatively small differences in totals for the various textural classes. Nevertheless, the small differences are enough to result in a difference in classification in one system (i.e., sandy loam versus loamy sand). Even so, it appears both samples probably represent sand bar type deposits with relatively small displacement in lateral and/or vertical position within the depositional sequence. The flow regime is very similar but not exactly the same; probably both represent moderate, more or less consistent flows and energies. Note that the majority of each sample is fine sand, about 70%; and of this the mid-range fine sand (i.e., #140 sieve) is the vast majority.

NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet sieved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule. Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.





Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	0.00	Gravel Total	1.82
3/8"	0.00	Coarse Sand	1.15
#4	1.82	Medium Sand	3.24
#10	1.15	Fine Sand	63.62
#20	1.68	Sand Total	68.01
#40	1.56	Silt	24.51
#60	1.40	Clay	5.66
#140	58.41	Fines Total	30.17
#200	3.81	Grand Total	100.00

#### ASTM CLASSIFICATION

**Brown Silty Sand  
(SM)**

#### USDA CLASSIFICATION

**Sandy Loam**

SAMPLE ID: MKF0118-01 CLIENT: Sequoia Analytical

PROJECT ID: MKF0118 - Adobe

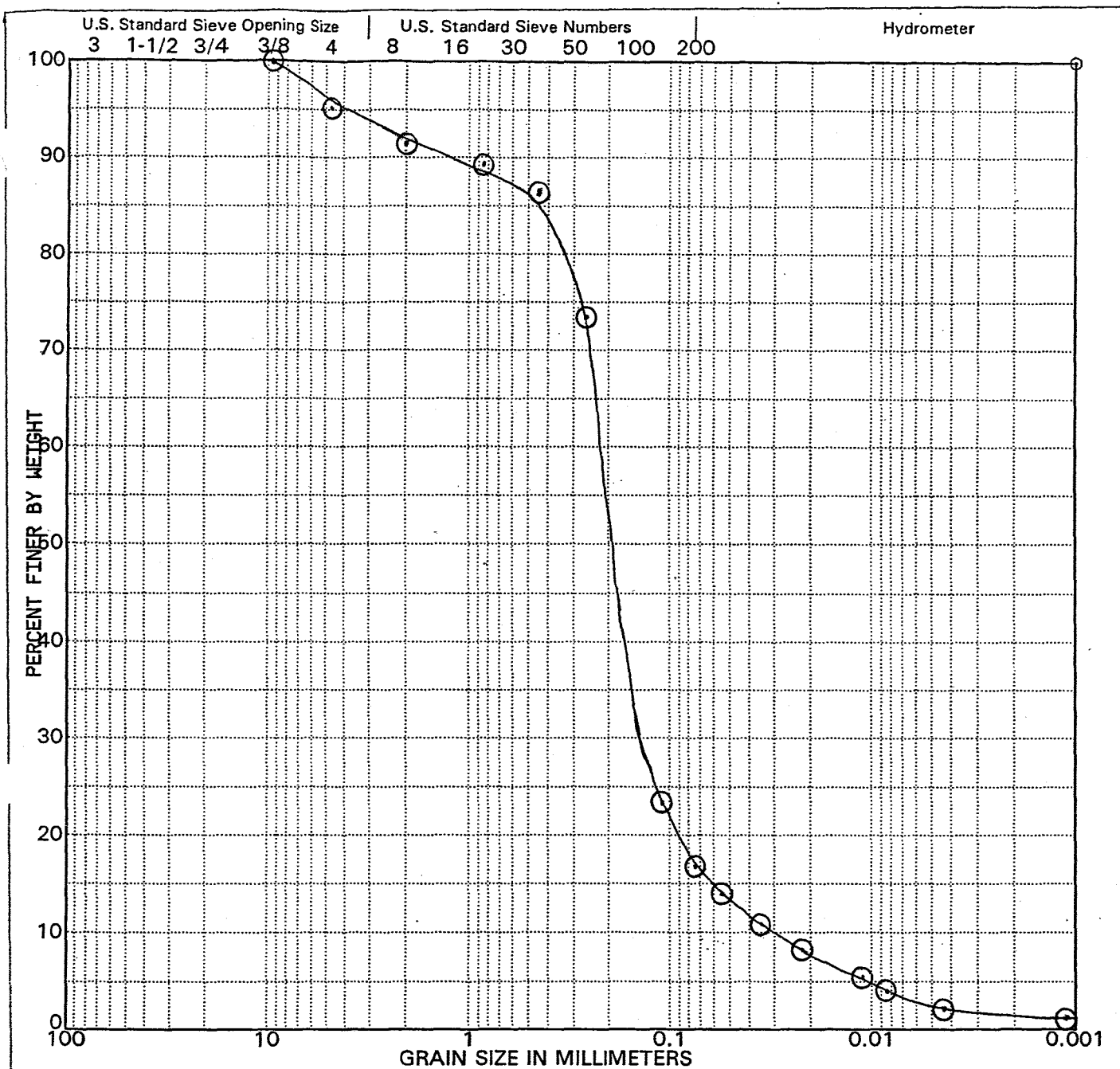
DATE: 7/03/01

PLATE 1

PARTICLE SIZE ANALYSIS



**E  
T  
S**



Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	0.00	Gravel Total	4.95
3/8"	0.00	Coarse Sand	2.68
#4	4.95	Medium Sand	5.61
#10	2.68	Fine Sand	70.07
#20	2.73	Sand Total	78.36
#40	2.88	Silt	13.82
#60	12.84	Clay	2.87
#140	50.39	Fines Total	16.69
#200	6.84	Grand Total	100.00

#### ASTM CLASSIFICATION

**Brown Silty Sand  
(SM)**

#### USDA CLASSIFICATION

**Loamy Sand**

SAMPLE ID: MKF0118-03 CLIENT: Sequoia Analytical  
PROJECT ID: MKF0118 - Adobe DATE: 7/03/01

PLATE 2

PARTICLE SIZE ANALYSIS



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COMPANY: Sequoia Analytical, 885 Jarvis Drive, Morgan Hill, CA 95037				ANALYST(S)	SUPERVISOR			
ATTN: Jeff Smyly					D. Jacobson			
SITE LOCATION: BerryCrop; California				DATE COLLECTED	DATE RECEIVED	DATE of REPORT	R. Conrad	LAB DIRECTOR
				6/8/01	7/6/01	7/18/01	J. Nelson	G. Conrad PhD

## HYDROMETER & SIEVE ANALYSIS REPORT

	LAB NUMBER: 01-07-0036    SAMPLE ID: MKF0268-05				LAB NUMBER: 01-07-0037    SAMPLE ID: MKF0268-06			
SIEVE SIZE (SCREEN #)	FINES PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	ASTM SYSTEM	FINES PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	ASTM SYSTEM
3/4" Sieve		98.07	1.93	Coarse Gravel		70.34	29.66	Coarse Gravel
3/8" Sieve		78.38	19.69	Fine Gravel		48.31	22.03	Fine Gravel
Sieve #4		62.14	16.24			35.94	12.37	
Sieve #10		36.70	25.44	Coarse Sand		23.82	12.12	Coarse Sand
Sieve #20		23.39	13.31	Medium Sand		16.26	7.56	Medium Sand
Sieve #40		16.40	6.99			11.43	4.83	
Sieve #60		12.09	4.31	Fine Sand		7.46	3.97	Fine Sand
Sieve #140		8.73	3.36			3.57	3.81	
Sieve #200		8.26	0.47			2.97	0.60	
MUD (Silt & Clay)	√			MUD (Silt & Clay)	√			Mud  (Silt & Clay)
	8.26	Grvl Total->	37.86		2.97	Grvl Total->	64.06	
		Sand Total->	53.88			Sand Total->	32.97	
		Fines Total->	8.26			Fines Total->	2.97	
		Sum Total->	100.00			Sum Total->	100.00	

### COMMENTS

These samples are either sand with gravel or vice versa; in one (-05) sand dominates, and in the other gravel dominates - notice the mud is very low to nil. Both represent moderate to high energy flow regimes with the dominant regime being moderate in one (-05), and (the low end of) high in the other (-06). The sandier sample may represent mid-level sand bar, while other could be lower sand bar and/or upstream bar deposit.

NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule. Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.



U.S. Standard Sieve Opening Size  
3 1-1/2 3/4 3/8 4

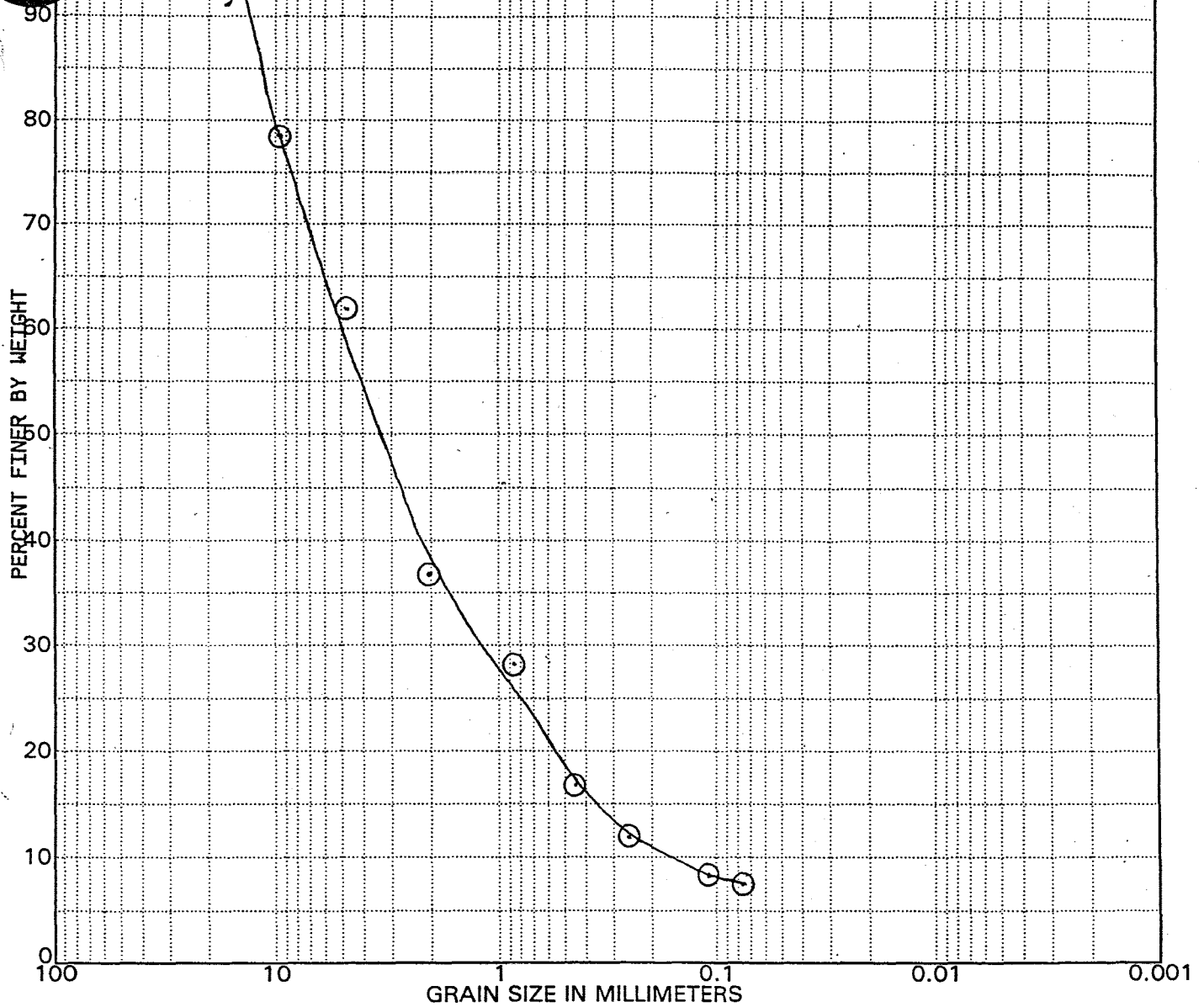
U.S. Standard Sieve Numbers  
8 16 30 50 100 200

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Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	1.93	Gravel Total	37.86
3/8"	19.69	Coarse Sand	25.44
#4	16.24	Medium Sand	20.30
#10	25.44	Fine Sand	8.14
#20	13.31	Sand Total	53.88
#40	6.99	Silt	-.--
#60	4.31	Clay	-.--
#140	3.36	Fines Total	8.26
#200	0.47	Grand Total	100.00

#### ASTM CLASSIFICATION

Gray Sand w/ silt  
and gravel (SP-SM)

#### USDA CLASSIFICATION

Loamy Sand

SAMPLE ID: MKF0268-05 CLIENT: Sequoia Analytical  
PROJECT ID: MKF0268 - BerryCrop DATE: 7/18/01

PLATE 3

PARTICLE SIZE ANALYSIS



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T  
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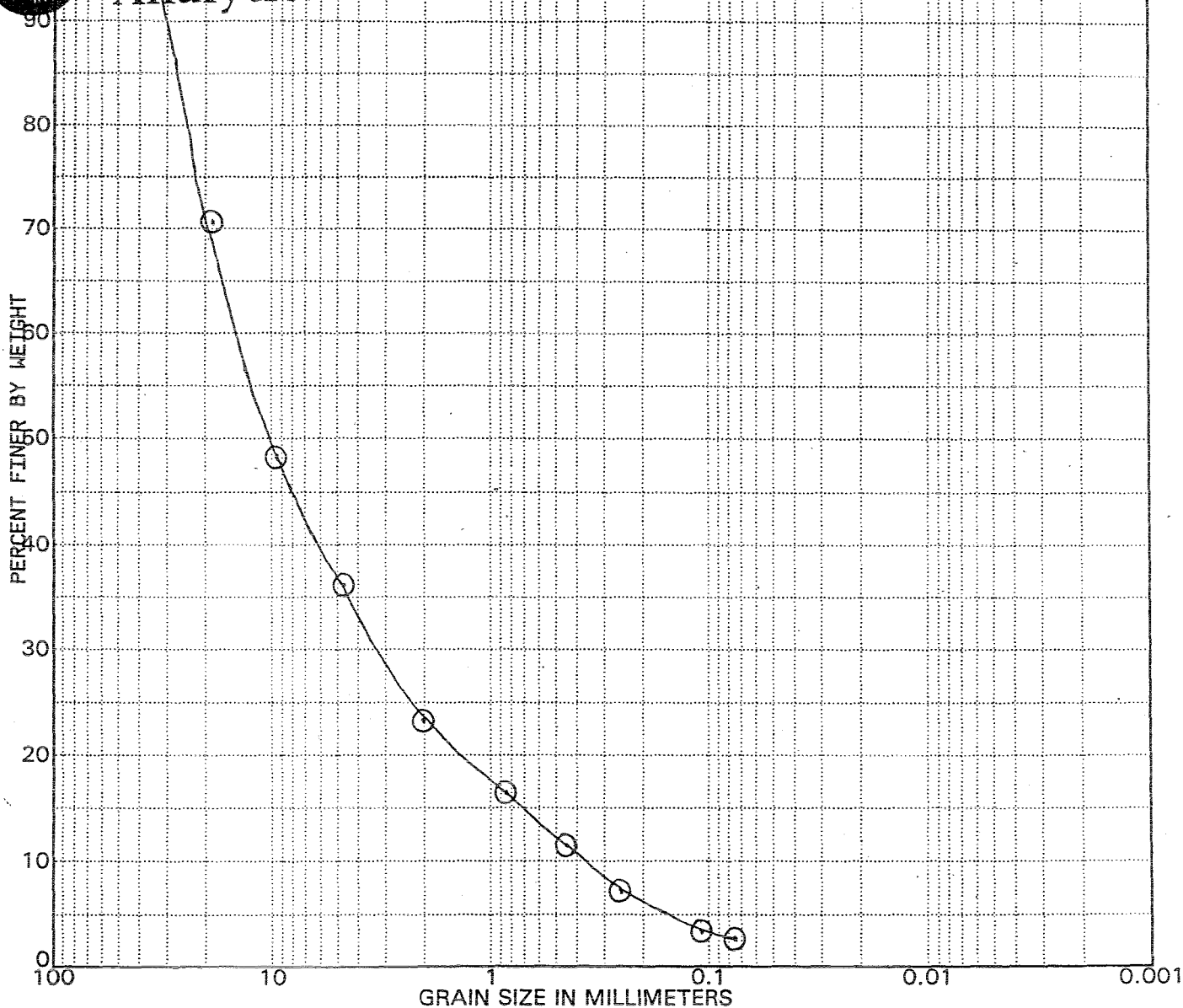
U.S. Standard Sieve Opening Size  
3 1-1/2 3/4 3/8 4

U.S. Standard Sieve Numbers  
8 16 30 50 100 200

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Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES
3/4"	29.66	Gravel Total -----> 64.06
3/8"	22.03	Coarse Sand ----> 12.12
#4	12.37	Medium Sand ----> 12.39
#10	12.12	Fine Sand -----> 8.46
#20	7.56	Sand Total -----> 32.97
#40	4.83	Silt -----> --
#60	3.97	Clay -----> --
#140	3.81	Fines Total -----> 2.97
#200	0.60	Grand Total -----> 100.00

## ASTM CLASSIFICATION

Dark Gray Gravel  
w/ sand (GP)

## USDA CLASSIFICATION

Sand

SAMPLE ID: MKF0268-06 CLIENT: Sequoia Analytical  
PROJECT ID: MKF0268 BerryCrop DATE: 7/18/01

PLATE 4

## PARTICLE SIZE ANALYSIS



E  
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COMPANY: Sequoia Analytical, 885 Jarvis Drive, Morgan Hill, CA 95037			ANALYST(S)		SUPERVISOR
ATTN: Jeff Smyly			M. Walker		D. Jacobson
SITE LOCATION: BerryMil; California			R. Conrad		LAB DIRECTOR
			J. Nelson		G. Conrad PhD
DATE COLLECTED			DATE RECEIVED		DATE of REPORT
6/8/01			7/6/01		7/18/01

01 Berry mil 01

01 Berry mil

02

**HYDROMETER & SIEVE ANALYSIS REPORT**

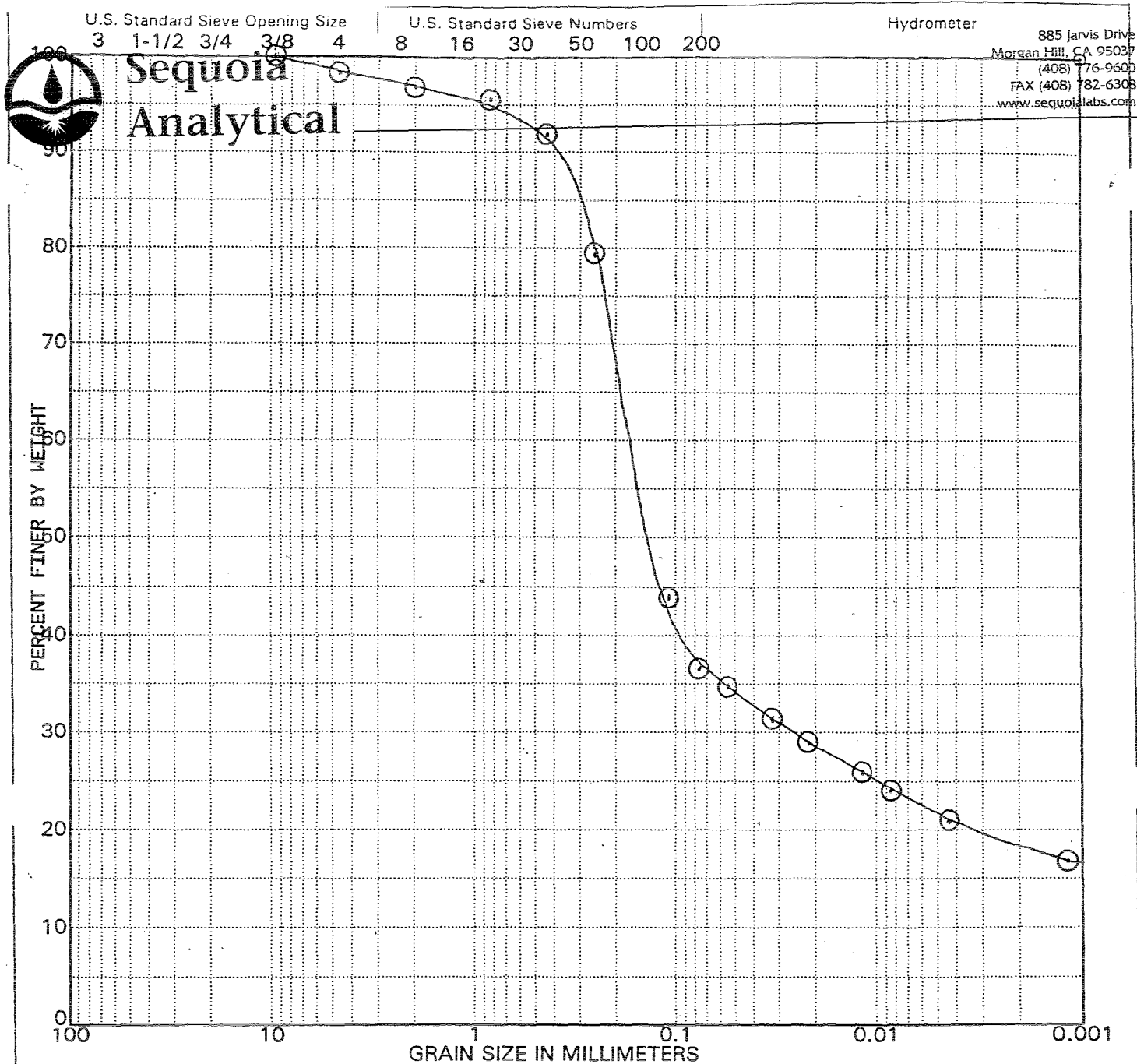
SIEVE SIZE (SCREEN #)	LAB NUMBER: 01-07-0031 SAMPLE ID: MKF0191-01				LAB NUMBER: 01-07-0032 SAMPLE ID: MKF0191-02			
	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	ASTM SYSTEM	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	ASTM SYSTEM
3/4" Sieve		100.00	0.00	Coarse Gravel		85.52	17.48	Coarse Gravel
3/8" Sieve		100.00	0.00	Fine Gravel		70.20	12.32	Fine Gravel
Sieve #4		98.58	1.42			59.67	10.53	
Sieve #10		97.08	1.50	Coarse Sand		42.39	17.28	Coarse Sand
Sieve #20		95.49	1.59	Medium Sand		31.44	10.95	Medium Sand
Sieve #40		92.06	3.43			26.23	5.21	
Sieve #60		79.70	12.36	Fine Sand		22.11	4.12	Fine Sand
Sieve #140		44.13	35.57			17.79	4.32	
Sieve #200		36.89	7.24			16.60	1.69	
SILT (0.074)	✓ 14.79	Grvl Total-> 1.42 Sand Total-> 61.69 Fines Total-> 36.89 Sum Total-> 100.00		SILT (0.074)	✓ 11.20	Grvl Total-> 40.33 Sand Total-> 43.07 Fines Total-> 16.60 Sum Total-> 100.00		Mud  (Silt & Clay)
CLAY (0.005)	22.10			CLAY (0.005)	5.40			

**COMMENTS**

Both samples classify as sand, although one is a clayey sand while the other is a silty sand with gravel; in USDA the more clayey sample is a sandy clay loam, while the other is a sandy loam. Despite the general similarity in class, these are very different in terms of sand fraction distribution and gravel content. One sample (-01) is mostly fine sand, while the other (-02) is mostly coarse and medium sand. Because of this they represent somewhat different depositional environments, i.e., low to (low) moderate energy versus (high) moderate to high energy. While one (-01) may represent an upper and/or downstream sand bar deposit, the other (-02) is more of a lower and/or upstream sand bar deposit; either could be overbank deposits but one (-01) is farther out than the other (-02).

NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule. Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.





Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	0.00	Gravel Total	1.42
3/8"	0.00	Coarse Sand	1.50
#4	1.42	Medium Sand	5.02
#10	1.50	Fine Sand	55.17
#20	1.59	Sand Total	61.69
#40	3.43	Silt	14.79
#60	12.36	Clay	22.10
#140	35.57	Fines Total	36.89
#200	7.24	Grand Total	100.00

#### ASTM CLASSIFICATION

**Brown Clayey Sand (SC)**

#### USDA CLASSIFICATION

**Sand Clay Loam**

SAMPLE ID: MKF0191-01 CLIENT: Sequoia Analytical  
 PROJECT ID: MKF0191 BerryMil DATE: 7/18/01

PLATE 1

PARTICLE SIZE ANALYSIS



**ETS**

U.S. Standard Sieve Opening Size

3 1-1/2 3/4 3/8 4

U.S. Standard Sieve Numbers

8 16 30 50 100 200

Hydrometer

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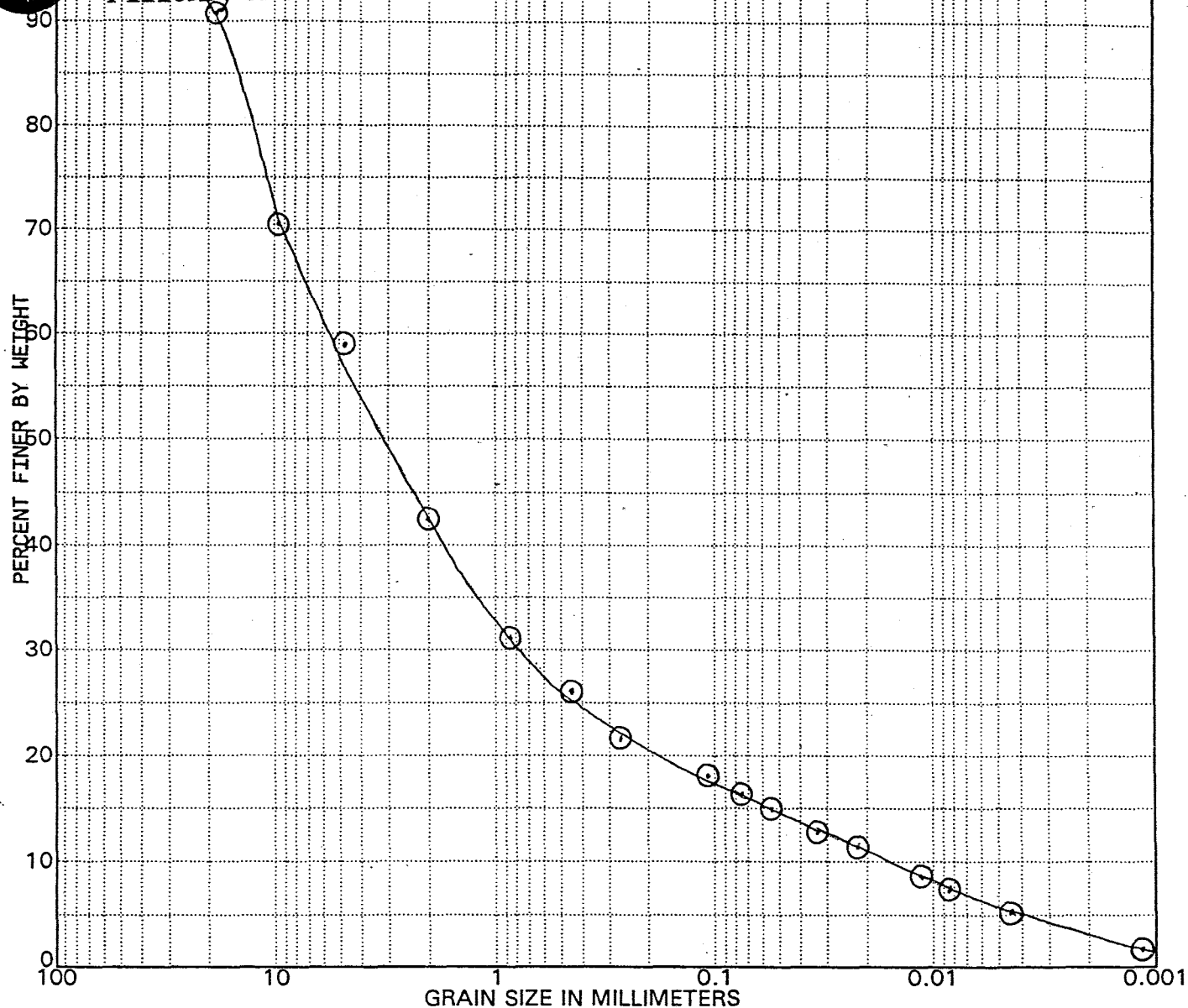
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Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	17.48	Gravel Total	40.33
3/8"	12.32	Coarse Sand	17.28
#4	10.53	Medium Sand	16.16
#10	17.28	Fine Sand	9.63
#20	10.95	Sand Total	43.07
#40	5.21	Silt	11.20
#60	4.12	Clay	5.40
#140	4.32	Fines Total	16.60
#200	1.19	Grand Total	100.00

## ASTM CLASSIFICATION

**Brown Silty Sand  
w/ gravel (SM)**

## USDA CLASSIFICATION

**Sandy Loam**

SAMPLE ID: MKF0191-02 CLIENT: Sequoia Analytical

PROJECT ID: MKF0191 - BerryMil DATE: 7/18/01

PLATE 2

PARTICLE SIZE ANALYSIS



**E  
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DATE COLLECTED	DATE RECEIVED	DATE of REPORT
6/8/01	7/6/01	7/18/01

ANALYST(S)	SUPERVISOR
M. Walker	D. Jacobson
R. Conrad	LAB DIRECTOR
J. Nelson	G. Conrad PhD

## HYDROMETER &amp; SIEVE ANALYSIS REPORT

	LAB NUMBER: 01-07-0033		SAMPLE ID: MKF0191-04		LAB NUMBER:		SAMPLE ID:	
SIEVE SIZE (SCREEN #)	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	ASTM SYSTEM	FINES PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	ASTM SYSTEM
3/4" Sieve		100.00	0.00	Coarse Gravel				Coarse Gravel
3/8" Sieve		89.29	10.71	Fine Gravel				Fine Gravel
Sieve #4		79.76	9.53					
Sieve #10		70.70	9.06	Coarse Sand				Coarse Sand
Sieve #20		63.92	6.78	Medium Sand				Medium Sand
Sieve #40		57.13	6.79					
Sieve #60		52.13	5.00					
Sieve #140		44.52	7.61	Fine Sand				Fine Sand
Sieve #200		41.02	3.50					
SILT (0.074)	√ 19.62				√			Mud
CLAY (0.005)	21.40	Grvl Total-> 20.24 Sand Total-> 38.74 Fines Total-> 41.02 Sum Total-> 100.00		MUD (Silt + Clay)		Grvl Total-> 0.00 Sand Total-> 0.00 Fines Total-> 0.00 Sum Total-> 0.00		(Silt & Clay)

## COMMENTS

This sample classifies as sandy clay with gravel; sand content is almost double the gravel content. This is mostly a low energy deposit, but runs the range from low to high energy with changing energy conditions; moderate energies are prevalent much of the time. This may represent inside channel deposits which are at low flow most of the time, but experience higher flow regimes, i.e., moderate to high, during parts of the annual cycle.

NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet sieved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule. Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.





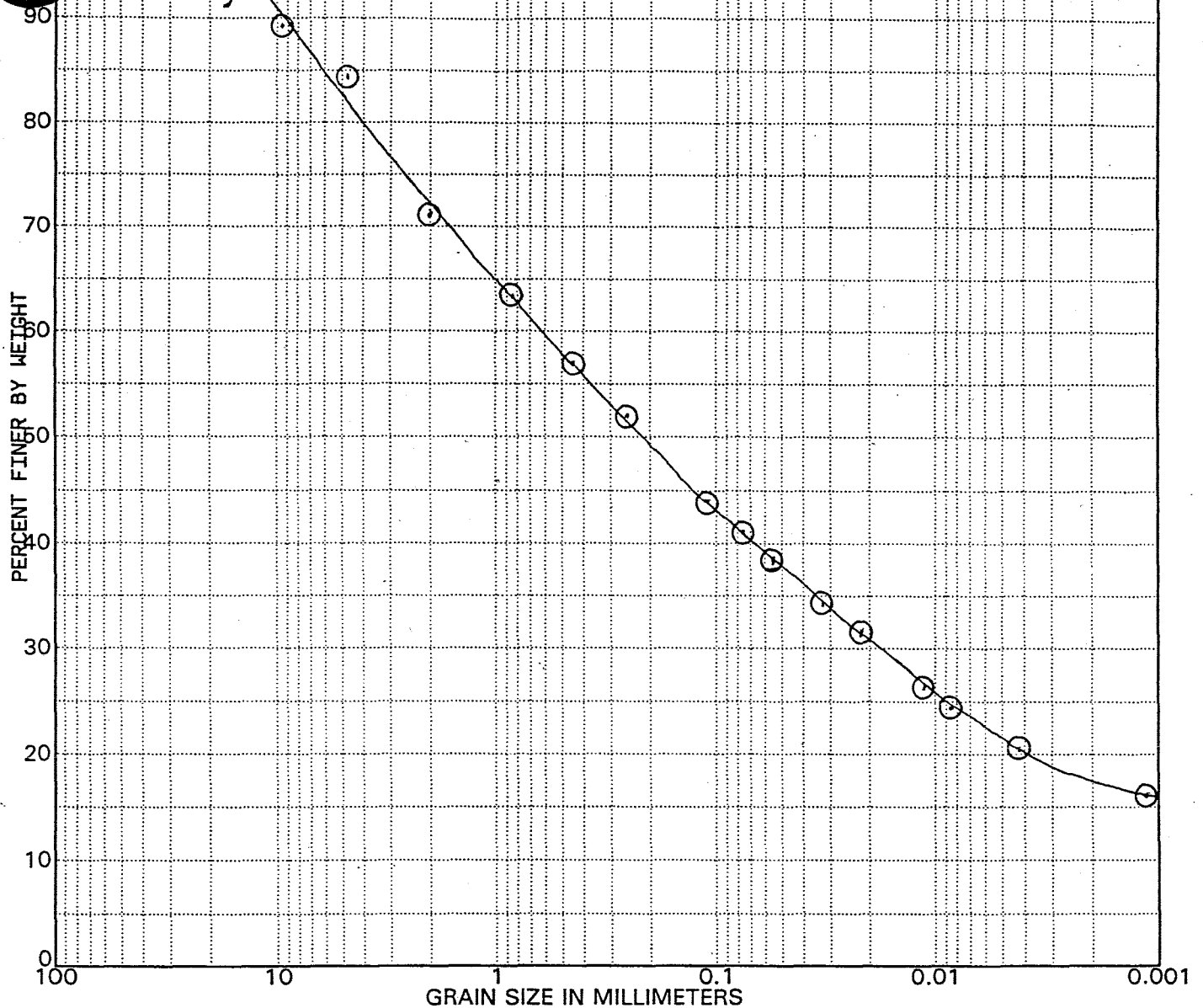
U.S. Standard Sieve Opening Size  
3 1-1/2 3/4 3/8 4

U.S. Standard Sieve Numbers  
8 16 30 50 100 200

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Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	0.00	Gravel Total	20.24
3/8"	10.71	Coarse Sand	9.06
#4	9.53	Medium Sand	13.57
#10	9.06	Fine Sand	16.11
#20	6.78	Sand Total	38.74
#40	6.79	Silt	19.62
#60	5.00	Clay	21.40
#140	7.61	Fines Total	41.02
#200	3.50	Grand Total	100.00

**ASTM CLASSIFICATION**

Gray Sandy Clay  
w/ gravel (CL)

**USDA CLASSIFICATION**

Clay Loam

SAMPLE ID: MKF0191-04 CLIENT: Sequoia Analytical  
PROJECT ID: MKF0191 BerryMil DATE: 7/18/01

PLATE 3

PARTICLE SIZE ANALYSIS



E  
T  
S



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COMPANY: Sequoia Analytical, 885 Jarvis Drive, Morgan Hill, CA 95037			ANALYST(S)		SUPERVISOR
ATTN: Jeff Smyly			S. Banwait		D. Jacobson
SITE LOCATION: BerryPied; California			R. Conrad		LAB DIRECTOR
			J. Nelson		G. Conrad PhD
DATE COLLECTED			DATE RECEIVED		
6/8/01			7/6/01		
DATE OF REPORT			7/18/01		

**HYDROMETER & SIEVE ANALYSIS REPORT**

	LAB NUMBER: 01-07-0034    SAMPLE ID: MKF0268-01				LAB NUMBER: 01-07-0035    SAMPLE ID: MKF0268-02							
SIEVE SIZE (SCREEN #)	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	ASTM SYSTEM	FINES PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	ASTM SYSTEM				
3/4" Sieve		97.41	2.59	Coarse Gravel		93.31	6.69	Coarse Gravel				
3/8" Sieve		92.17	5.24	Fine Gravel		69.49	23.82	Fine Gravel				
Sieve #4		78.36	13.81			47.25	22.24					
Sieve #10		64.22	14.14	Coarse Sand		34.16	13.09	Coarse Sand				
Sieve #20		55.67	8.55	Medium Sand		25.90	8.26	Medium Sand				
Sieve #40		41.35	14.32			20.37	5.53					
Sieve #60		27.46	13.89	Fine Sand		14.77	5.60	Fine Sand				
Sieve #140		14.39	13.07			8.49	6.28					
Sieve #200		11.80	2.59			7.80	0.69					
SILT (0.074)	√ 7.40	Grvl Total-> 21.64 Sand Total-> 66.56 Fines Total-> 11.80 Sum Total-> 100.00		MUD (Silt & Clay)	√	Grvl Total-> 52.75 Sand Total-> 39.45 Fines Total-> 7.80 Sum Total-> 100.00		Mud				
CLAY (0.005)	4.40				7.80			(Silt & Clay)				

**COMMENTS**

These samples are either sand with gravel or vice versa; in one (-01) sand dominates, and in the other gravel dominates - they are almost the reverse of one another. Both represent moderate to high energy flow regimes with the dominant regime being moderate in one (-01), and (the low end of) high in the other (-02). The sandier sample may represent mid-level sand bar, while other could be lower sand bar and/or upstream bar deposit.

NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet sieved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule. Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.





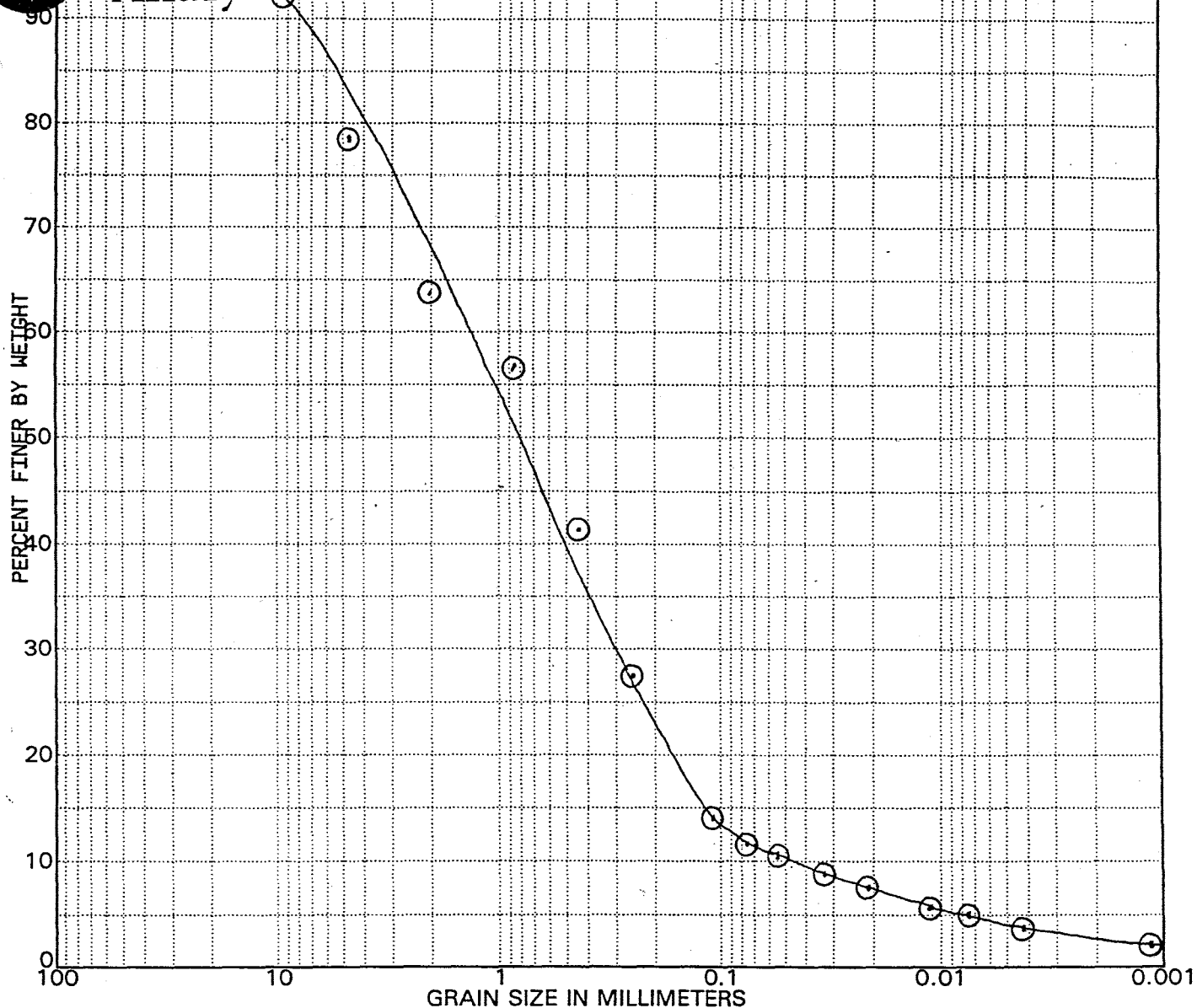
U.S. Standard Sieve Opening Size  
3 1-1/2 3/4 3/8 4

U.S. Standard Sieve Numbers  
8 16 30 50 100 200

Hydrometer

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Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	2.59	Gravel Total	21.64
3/8"	5.24	Coarse Sand	14.14
#4	13.81	Medium Sand	22.87
#10	14.14	Fine Sand	29.55
#20	8.55	Sand Total	66.56
#40	14.32	Silt	7.40
#60	13.89	Clay	4.40
#140	13.07	Fines Total	11.80
#200	2.59	Grand Total	100.00

**ASTM CLASSIFICATION**

Gray Sand w/ gravel  
and silt (SP-SM)

**USDA CLASSIFICATION**

Loamy Sand

SAMPLE ID: MKF0268-01 CLIENT: Sequoia Analytical  
PROJECT ID: MKF0268 - BerryPied 01 DATE: 7/18/01

PLATE 1

PARTICLE SIZE ANALYSIS



E  
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U.S. Standard Sieve Opening Size

3 1-1/2 3/4 3/8 4

U.S. Standard Sieve Numbers

8 16 30 50 100 200

Hydrometer

885 Jarvis Drive

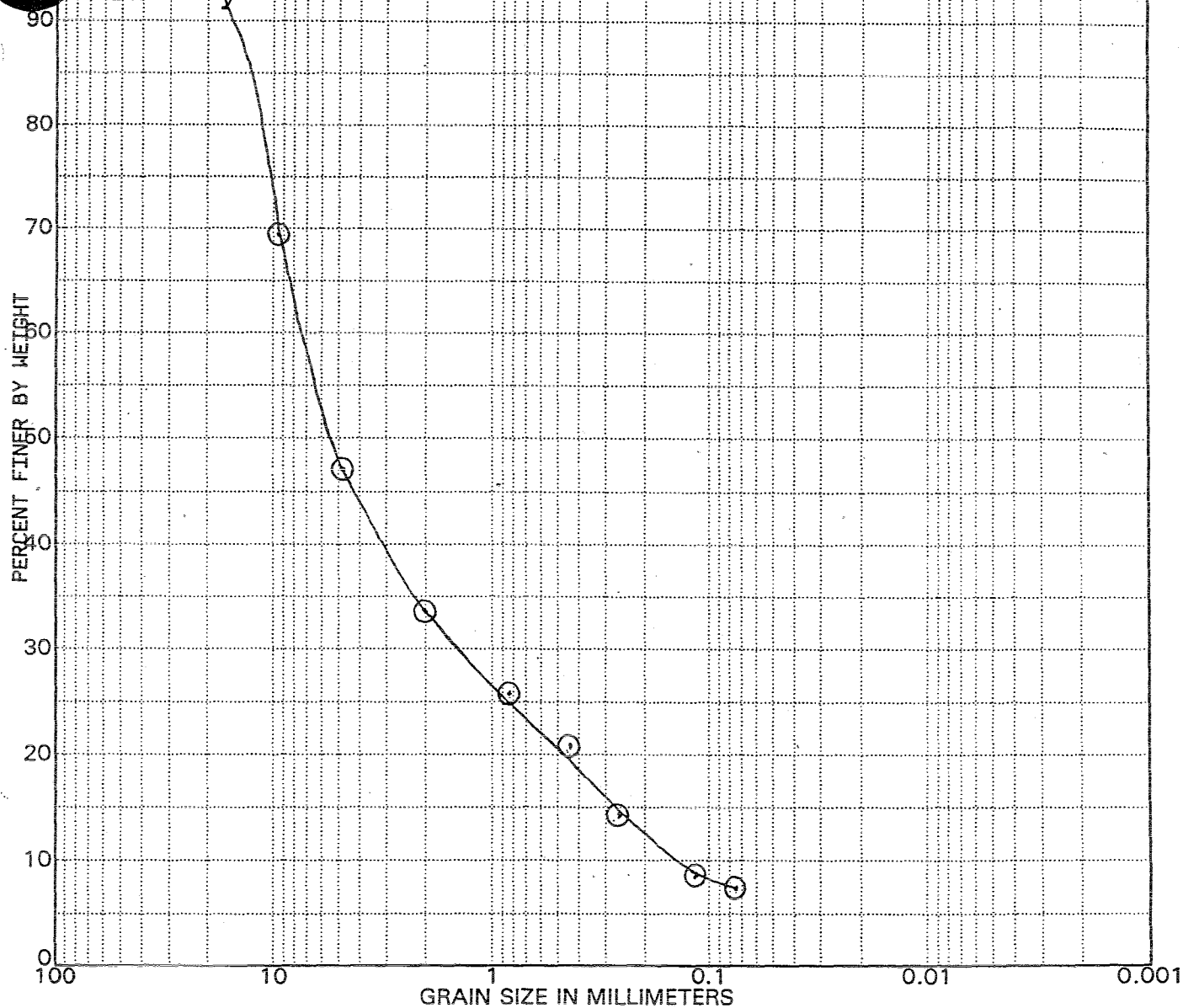
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# Sequoia Analytical



Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	6.69	Gravel Total	52.75
3/8"	23.82	Coarse Sand	13.09
#4	22.24	Medium Sand	13.79
#10	13.09	Fine Sand	12.57
#20	8.26	Sand Total	39.45
#40	5.53	Silt	---
#60	5.60	Clay	---
#140	6.28	Fines Total	7.80
#200	0.69	Grand Total	100.00

## ASTM CLASSIFICATION

Brown Gravel w/ silt  
and sand (GP-GM)

## USDA CLASSIFICATION

Loamy Sand

SAMPLE ID: MKF0268-02 CLIENT: Sequoia Analytical  
PROJECT ID: MKF0268-01 BerryPied CCO1 DATE: 7/18/01

PLATE 2

PARTICLE SIZE ANALYSIS



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# ETS

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ATTN: Jeff Smyly				S. Banwait		D. Jacobson	
SITE LOCATION: Calabazas, California				R. Conrad		LAB DIRECTOR	
				J. Nelson		G. Conrad PhD	
DATE COLLECTED				DATE RECEIVED		DATE of REPORT	
6/3/01				6/6/01		6/27/01	

01calabazas 06

01calabazas 07

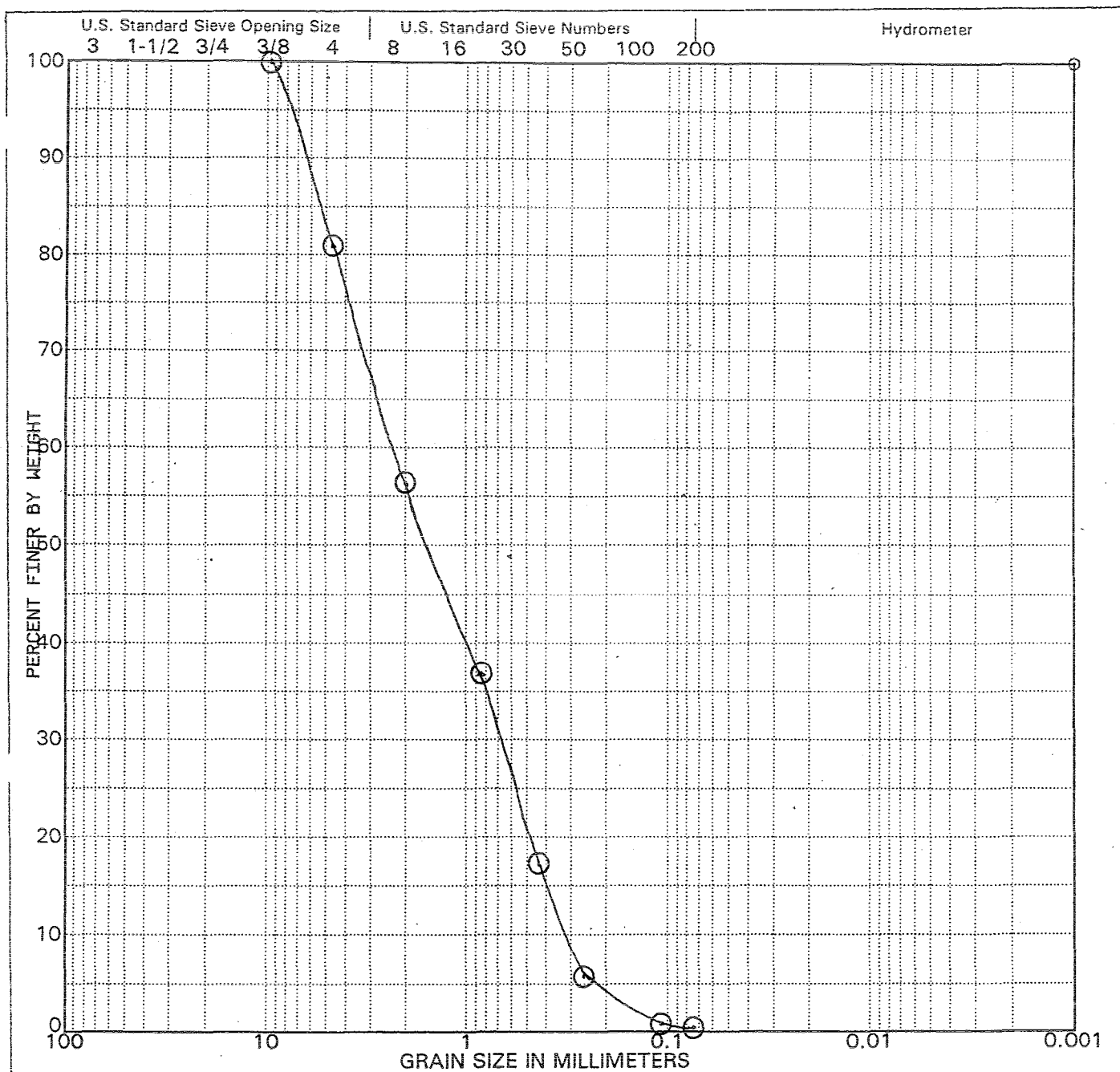
## HYDROMETER & SIEVE ANALYSIS REPORT

	LAB NUMBER: 01-06-0061    SAMPLE ID: MKF0033-01				LAB NUMBER: 01-06-0062    SAMPLE ID: MKF0033-04			
SIEVE SIZE (SCREEN #)	FINES PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM
3/4" Sieve		100.00	0.00	Coarse Gravel		100.00	0.00	Coarse Gravel
3/8" Sieve		100.00	0.00	Fine Gravel		75.60	24.40	Fine Gravel
Sieve #4		81.00	19.00			59.29	16.31	
Sieve #10		56.97	24.03	Coarse Sand		28.53	30.76	Coarse Sand
Sieve #20		36.48	20.49	Medium Sand		9.40	19.13	Medium Sand
Sieve #40		17.56	18.92			2.13	7.28	
Sieve #60		5.85	11.71	Fine Sand		0.33	1.79	Fine Sand
Sieve #140		0.81	5.04			0.12	0.21	
Sieve #200		0.41	0.40			0.08	0.04	
MUD (Silt & Clay)	√	MUD (Silt & Clay)		MUD (Silt & Clay)	√	Mud (Silt & Clay)		
	0.41				0.08			
	Grvl Total->				40.71			
	Sand Total->				59.21			
	Fines Total->				0.08			
Sum Total->	100.00	Sum Total->	100.00					

## COMMENTS

These two samples along with the next one are mostly coarse sand and gravel with almost no fines at all. Two have under 1% mud (one is under 0.1% fines!), and the third is under 2%; i.e., all have <5% mud. Thus, these materials appear to represent stream lag deposits where the energy is high and flow regime is fast when there is flow.

NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet sieved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule. Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.



Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	0.00	Gravel Total	19.00
3/8"	0.00	Coarse Sand	24.03
#4	19.00	Medium Sand	39.41
#10	24.03	Fine Sand	17.15
#20	20.49	Sand Total	80.59
#40	18.92	Silt	0.00
#60	11.71	Clay	0.00
#140	5.04	Fines Total	0.41
#200	0.40	Grand Total	100.00

#### SOIL CLASSIFICATION

**Gray Sand  
w/ gravel (SP)**

#### USDA CLASSIFICATION

**Sand**

SAMPLE ID: MKF0033-01 CLIENT: Sequoia Analytical

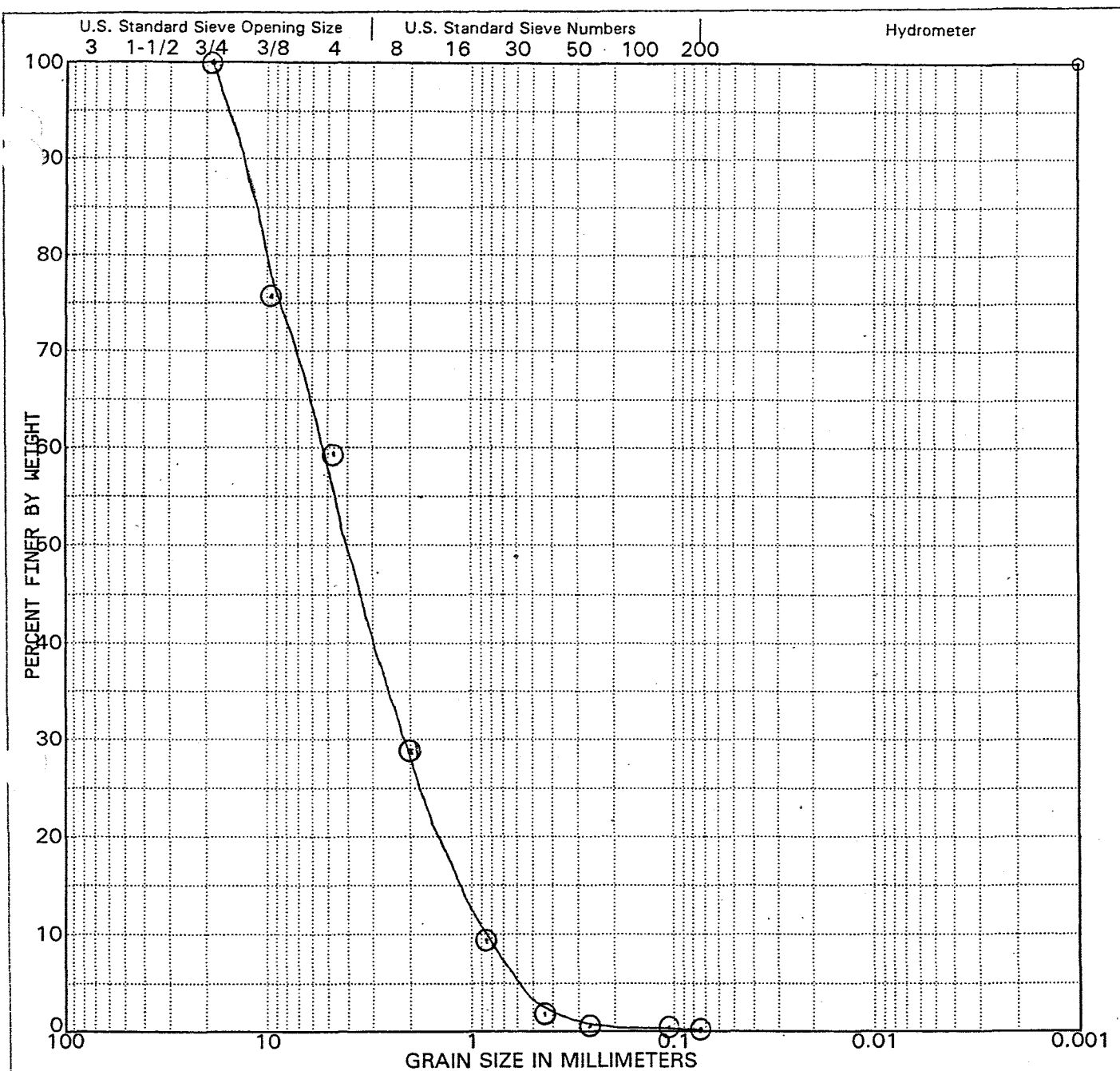
PROJECT ID: MKE0033 - Calabazas DATE: 6/27/01

PLATE 1

PARTICLE SIZE ANALYSIS



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Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	0.00	Gravel Total	40.71
3/8"	24.40	Coarse Sand	30.76
#4	16.31	Medium Sand	26.41
#10	30.76	Fine Sand	2.04
#20	19.13	Sand Total	59.21
#40	7.28	Silt	0.08
#60	1.79	Clay	0.00
#140	0.21	Fines Total	0.08
#200	0.04	Grand Total	100.00

#### SOIL CLASSIFICATION

Gray Sand  
w/ gravel (SP)

#### USDA CLASSIFICATION

Sand

SAMPLE ID: MKF0033-04 CLIENT: Sequoia Analytical  
PROJECT ID: MKE0033 - Calabazas DATE: 6/27/01

PLATE 2

PARTICLE SIZE ANALYSIS



ETS





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ATTN: Jeff Smyly				S. Banwait		D. Jacobson
SITE LOCATION: Calabazas, California				R. Conrad		LAB DIRECTOR
				J. Nelson		G. Conrad PhD

01 Calabazas 08

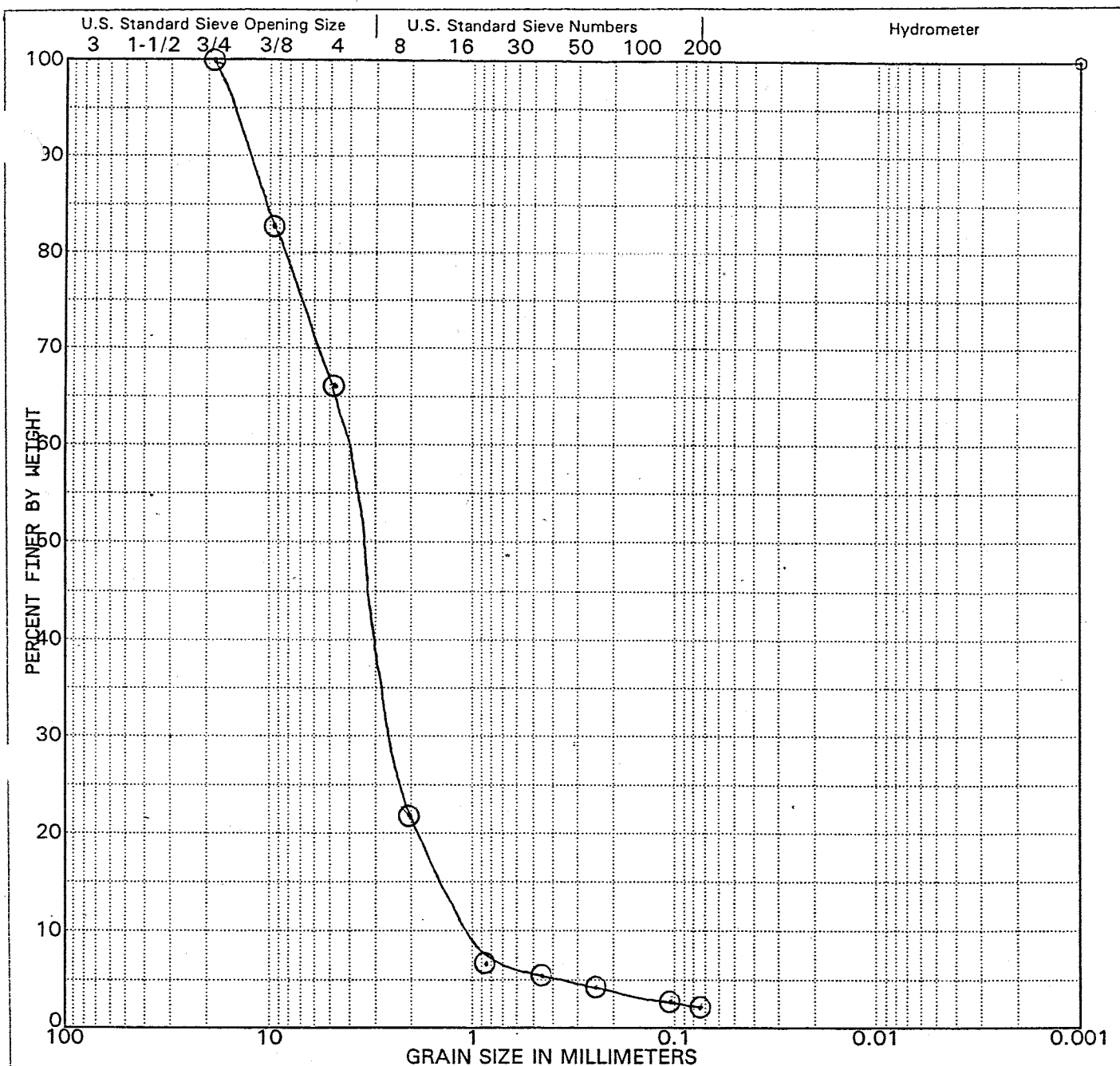
## HYDROMETER & SIEVE ANALYSIS REPORT

SIEVE SIZE (SCREEN #)	LAB NUMBER: 01-06-0063 SAMPLE ID: MKF0033-05				LAB NUMBER: SAMPLE ID:			
	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM	FINES PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM
3/4" Sieve		100.00	0.00	Coarse Gravel				Coarse Gravel
3/8" Sieve		82.35	17.65	Fine Gravel				Fine Gravel
Sieve #4		66.07	16.28					
Sieve #10		21.71	44.36	Coarse Sand				Coarse Sand
Sieve #20		7.16	14.55	Medium Sand				Medium Sand
Sieve #40		5.26	1.90					
Sieve #60		4.20	1.06	Fine Sand				Fine Sand
Sieve #140		3.11	1.09					
Sieve #200		1.91	1.20					
MUD (Silt & Clay)	√	1.91		MUD (Silt & Clay)	√			Mud (Silt & Clay)
		Grvl Total->	33.93			Grvl Total->	0.00	
		Sand Total->	64.16			Sand Total->	0.00	
		Fines Total->	1.91			Fines Total->	0.00	
		Sum Total->	100.00			Sum Total->	100.00	

## COMMENTS

This sample is similar to the two previous samples in that it is mostly coarse sand and gravel with almost no fines - in this case <2% mud content. As concluded for the two previous samples (-01 & -04) this sediment appears to represent stream lag deposits where the energy is high and flow regime is fast when there is flow.

NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet sieved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSI, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule. Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.



Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES
3/4"	0.00	Gravel Total -----> 33.93
3/8"	17.65	Coarse Sand ----> 44.36
#4	16.28	Medium Sand ----> 16.45
#10	44.36	Fine Sand -----> 3.35
#20	14.55	Sand Total -----> 64.16
#40	1.90	Silt -----> .--
#60	1.06	Clay -----> .--
#140	1.09	Fines Total -----> 1.91
#200	1.20	Grand Total -----> 100.00

# SOIL CLASSIFICATION

Gray Sand  
w/ gravel (SP)

## USDA CLASSIFICATION

Sand

SAMPLE ID: MKF0033-05 CLIENT: Sequoia Analytical  
PROJECT ID: MKE0033 - Calabazas DATE: 6/27/01

PLATE 3

PARTICLE SIZE ANALYSIS



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S



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ATTN: Jeff Smyly			DATE COLLECTED	DATE RECEIVED	DATE of REPORT		
SITE LOCATION: Calabazas, California			6/3/01	6/6/01	6/27/01		

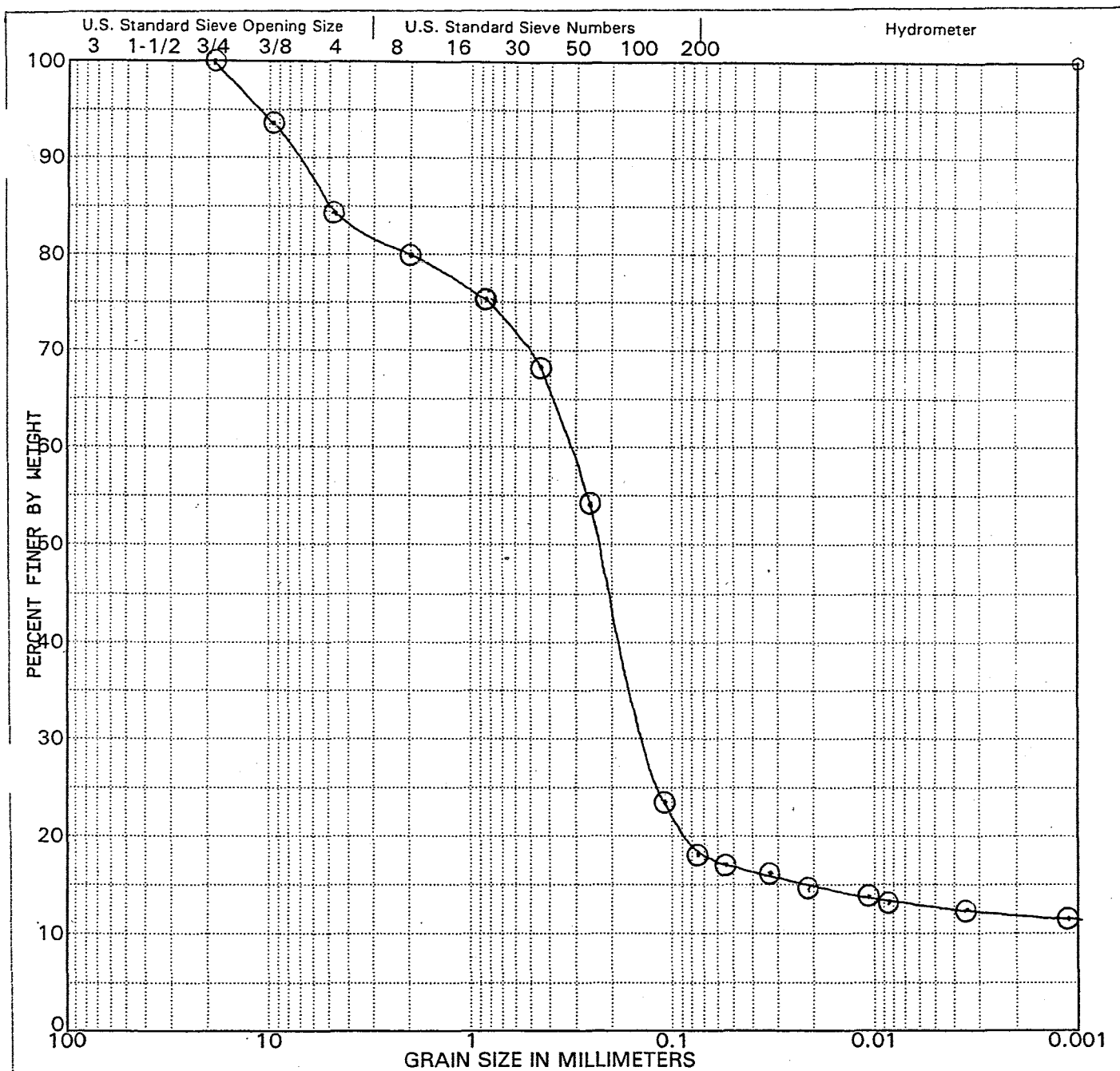
*01 Calabazas 05* *01 Calabazas 04*  
HYDROMETER & SIEVE ANALYSIS REPORT

SIEVE SIZE (SCREEN #)	LAB NUMBER: 01-06-0064 SAMPLE ID: MKF0033-08				LAB NUMBER: 01-06-0065 SAMPLE ID: MKF0033-12			
	FINES PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM
3/4" Sieve		100.00	0.00	Coarse Gravel		100.00	0.00	Coarse Gravel
3/8" Sieve		93.75	6.25	Fine Gravel		100.00	0.00	Fine Gravel
Sieve #4		84.65	9.10			95.09	4.91	
Sieve #10		80.07	4.58	Coarse Sand		87.39	7.70	Coarse Sand
Sieve #20		75.57	4.50	Medium Sand		78.59	8.80	Medium Sand
Sieve #40		67.98	7.59			63.13	15.46	
Sieve #60		49.10	18.88			42.46	20.67	
Sieve #140		23.97	25.13			17.43	25.03	
Sieve #200		18.01	5.96	Fine Sand		13.07	4.36	Fine Sand
SILT (0.074)	√ 5.34	<i>Grvl Total-&gt; 15.35 Sand Total-&gt; 66.64 Fines Total-&gt; 18.01 Sum Total-&gt; 100.00</i>		SILT (0.074)	√ 9.05	<i>Grvl Total-&gt; 4.91 Sand Total-&gt; 82.02 Fines Total-&gt; 13.07 Sum Total-&gt; 100.00</i>		Mud
CLAY (0.005)	12.67			CLAY (0.005)	4.02			(Silt & Clay)

\*\*\*\*\*  
COMMENTS

These two samples are similar to most (5 of the 6 samples) that follow in that they are mostly sands with varying amounts of mud and gravel. In these two samples gravel content is essentially in the 5-15% range which is relatively high as compared with the following samples. And at the same time they have substantially less mud content than those samples that follow. As a result, these samples appear to represent a higher energy flow regime than those that follow, e.g. mid- to lower level sand bar and similar deposits.

\\ NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet sieved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule. Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.



Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	0.00	Gravel Total	15.35
3/8"	6.25	Coarse Sand	4.58
#4	9.10	Medium Sand	12.09
#10	4.58	Fine Sand	49.97
#20	4.50	Sand Total	66.64
#40	7.59	Silt	5.34
#60	18.88	Clay	12.67
#140	25.13	Fines Total	18.01
#200	5.96	Grand Total	100.00

#### SOIL CLASSIFICATION

**Brown Clayey Sand  
w/ gravel (SC)**

#### USDA CLASSIFICATION

**Sandy Loam**

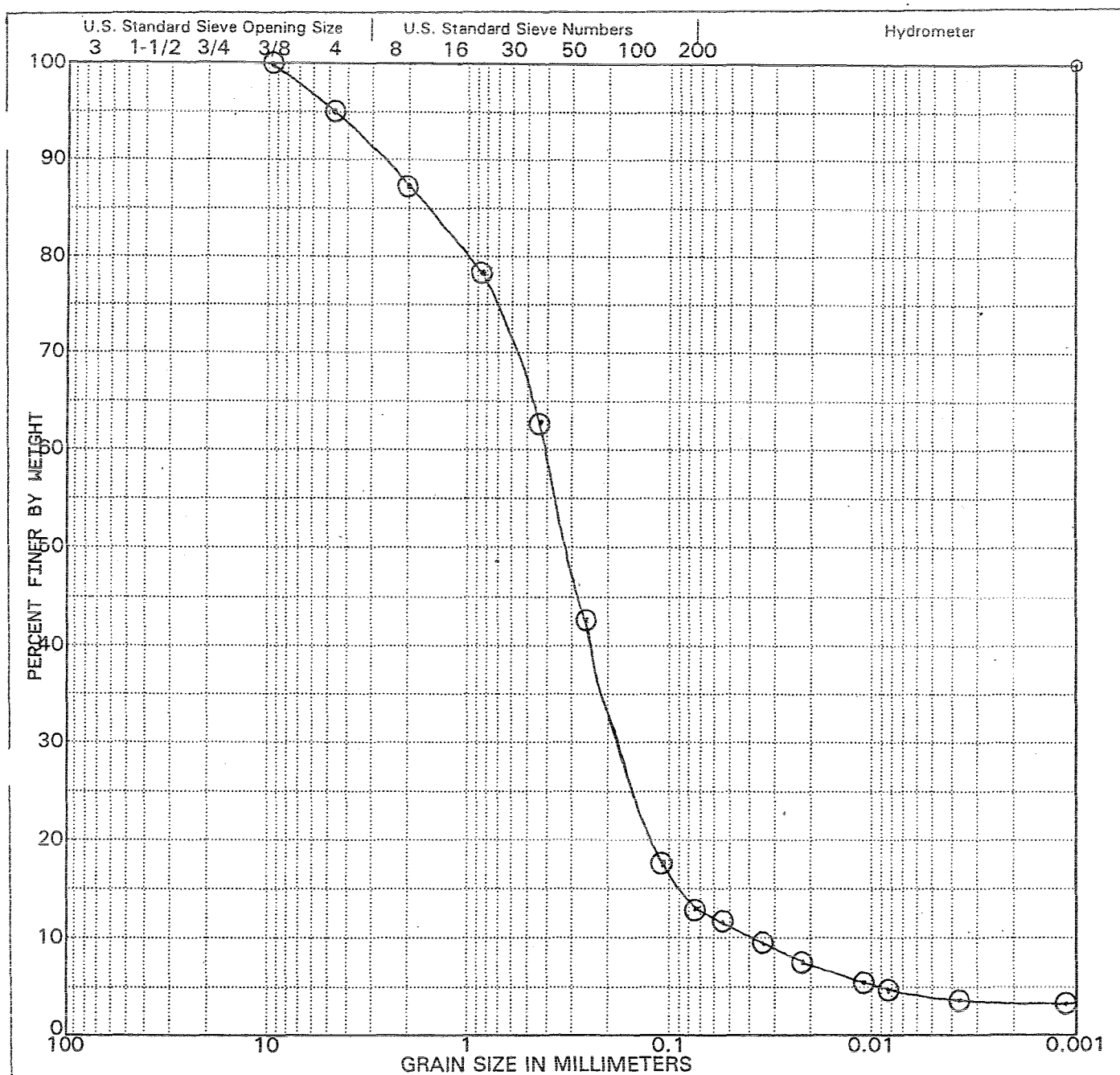
SAMPLE ID: MKF0033-08 CLIENT: Sequoia Analytical  
PROJECT ID: MKE0033 - Calabazas DATE: 6/27/01

PLATE 4

PARTICLE SIZE ANALYSIS



**E  
T  
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Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	0.00	Gravel Total	4.91
3/8"	0.00	Coarse Sand	7.70
#4	4.91	Medium Sand	24.26
#10	7.70	Fine Sand	50.06
#20	8.80	Sand Total	82.02
#40	15.46	Silt	9.05
#60	20.67	Clay	4.02
#140	25.03	Fines Total	13.07
#200	4.36	Grand Total	100.00

# SOIL CLASSIFICATION

**Brown Silty Sand (SM)**

# USDA CLASSIFICATION

**Loamy Sand**

SAMPLE ID: MKF0033-12 CLIENT: Sequoia Analytical

PROJECT ID: MKE0033 - Calabazas

DATE: 6/27/01

PLATE 5

PARTICLE SIZE ANALYSIS



**E  
T  
S**

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ATTN: Jeff Smyly					LAB DIRECTOR G.Conrad PhD
SITE LOCATION: Calabazas, California					
DATE COLLECTED		DATE RECEIVED		DATE of REPORT	
6/3/01		6/6/01		6/27/01	

**HYDROMETER & SIEVE ANALYSIS REPORT**

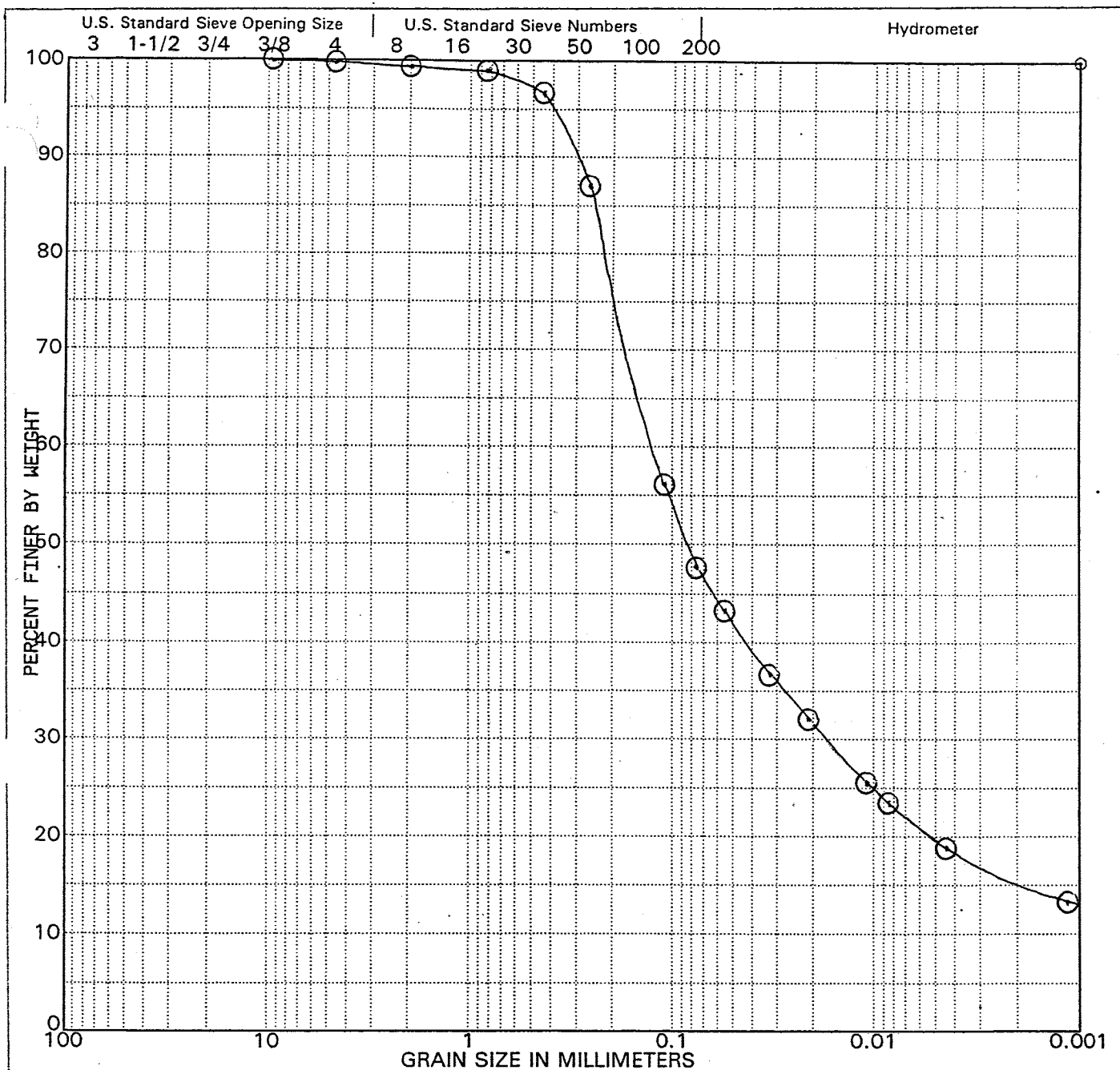
		LAB NUMBER: 01-06-0066    SAMPLE ID: MKF0033-13					LAB NUMBER: 01-06-0067    SAMPLE ID: MKF0033-14		
SIEVE SIZE (SCREEN #)	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM	FINES PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM	
3/4" Sieve		100.00	0.00	Coarse Gravel		100	0.00	Coarse Gravel	
3/8" Sieve		100.00	0.00	Fine Gravel		100	0.00	Fine Gravel	
Sieve #4		99.78	0.22			99.77	0.23		
Sieve #10		99.52	0.26	Coarse Sand		99.52	0.25	Coarse Sand	
Sieve #20		99.17	0.35	Medium Sand		99.19	0.33	Medium Sand	
Sieve #40		94.41	4.76			97.03	2.16		
Sieve #60		77.44	16.97	Fine Sand		87.33	9.71	Fine Sand	
Sieve #140		36.68	40.76			55.71	31.62		
Sieve #200		32.00	4.68			42.71	12.99		
SILT (0.074)	✓ 22.22	Grvl Total-> 0.22 Sand Total-> 67.78 Fines Total-> 32.00 Sum Total-> 100.00		SILT (0.074)	✓ 22.84	Grvl Total-> 0.23 Sand Total-> 57.06 Fines Total-> 42.71 Sum Total-> 100.00		Mud	
CLAY (0.005)	9.78			CLAY (0.005)	19.87			(Silt & Clay)	

**COMMENTS**

These two samples are similar to the previous two in that they are sands, one a silty sand the other a clayey sand, but they have significantly more mud and virtually no gravel content. As a result, they may represent higher level sand bar or similar deposits. As is the case for the previous two samples (-08 & -12), these two samples are mostly fine sand which is consistent with a low-moderate energy level. The high mud content is indicative of low flow regimes a significant percentage of the time.

NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet sieved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule. Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.





Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	0.00	Gravel Total	0.23
3/8"	0.00	Coarse Sand	0.25
#4	0.23	Medium Sand	2.49
#10	0.25	Fine Sand	54.32
#20	0.33	Sand Total	57.06
#40	2.16	Silt	22.84
#60	9.71	Clay	19.87
#140	31.62	Fines Total	42.71
#200	12.99	Grand Total	100.00

#### SOIL CLASSIFICATION

**Brown Clayey Sand (SC)**

#### USDA CLASSIFICATION

**Sandy Loam**

SAMPLE ID: MKF0033-14 CLIENT: Sequoia Analytical

PROJECT ID: MKE0033 - Calabazas DATE: 6/27/01

PLATE 7

PARTICLE SIZE ANALYSIS



**ETS**





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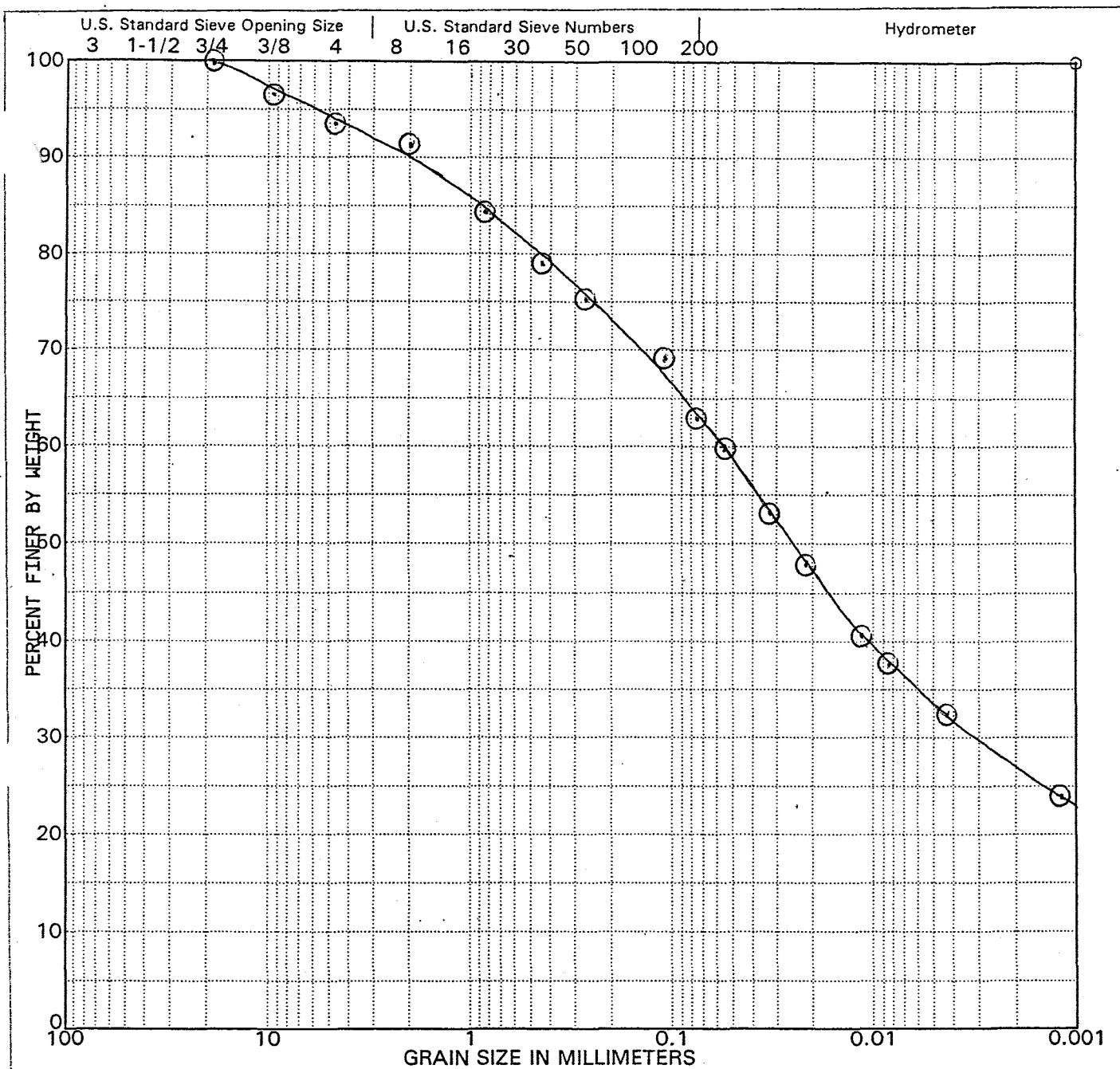
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COMPANY: Sequoia Analytical, 885 Jarvis Drive, Morgan Hill, CA 95037					ANALYST(S)		SUPERVISOR	
ATTN: Jeff Smyly					S. Banwait		D. Jacobson	
SITE LOCATION: Calabazas, California					R. Conrad		LAB DIRECTOR	
					J. Nelson		G. Conrad PhD	
01 Calabazas CCD3 01 Calabazas 01								
HYDROMETER & SIEVE ANALYSIS REPORT								
LAB NUMBER: 01-06-0068		SAMPLE ID: MKF0033-17			LAB NUMBER: 01-06-0069		SAMPLE ID: MKF0033-19	
SIEVE SIZE (SCREEN #)	FINES PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM
3/4" Sieve		100.00	0.00	Coarse Gravel		100.00	0.00	Coarse Gravel
3/8" Sieve		96.40	3.60	Fine Gravel		100.00	0.00	Fine Gravel
Sieve #4		93.53	2.87			99.84	0.16	
Sieve #10		91.42	2.11	Coarse Sand		99.69	0.15	Coarse Sand
Sieve #20		84.65	6.77	Medium Sand		99.52	0.18	Medium Sand
Sieve #40		79.00	5.65			84.16	15.36	
Sieve #60		75.17	3.83	Fine Sand		68.45	15.70	Fine Sand
Sieve #140		69.19	5.98			50.43	18.02	
Sieve #200		63.65	5.54			44.24	6.19	
SILT (0.074)	✓ 30.60			SILT (0.074)	✓ 27.23			Mud
CLAY (0.005)	33.05	Grvl Total-> 6.47		CLAY (0.005)	17.01	Grvl Total-> 0.16		(Silt & Clay)
		Sand Total-> 29.88				Sand Total-> 55.60		
		Fines Total-> 63.65				Fines Total-> 44.24		
		Sum Total-> 100.00				Sum Total-> 0.00		

\*\*\*\*\*  
COMMENTS

One of these two samples is similar to the previous four, i.e., it is a sand - in this case a clayey sand, but the other is a sandy clay. Therefore, while the sandy material represents basically the same depositional environment and flow regime as the previous two samples (i.e., -13 & -14), the other sample represents an even lower energy flow regime, i.e., a fairly low level of energy. Still, there was enough energy to transport and deposit medium and coarse sand, and even fine gravel. This is indicative of a more variable flow regime where low/slow flow predominates, but moderate energy levels of flow occur occasionally.

NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet sieved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISS, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule. Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.



Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	0.00	Gravel Total	6.47
3/8"	3.60	Coarse Sand	2.11
#4	2.87	Medium Sand	12.42
#10	2.11	Fine Sand	15.35
#20	6.77	Sand Total	29.88
#40	5.65	Silt	30.60
#60	3.83	Clay	33.05
#140	5.98	Fines Total	63.65
#200	5.54	Grand Total	100.00

#### SOIL CLASSIFICATION

**Lt. Brown Sandy  
Clay (CL)**

#### USDA CLASSIFICATION

**Clay Loam**

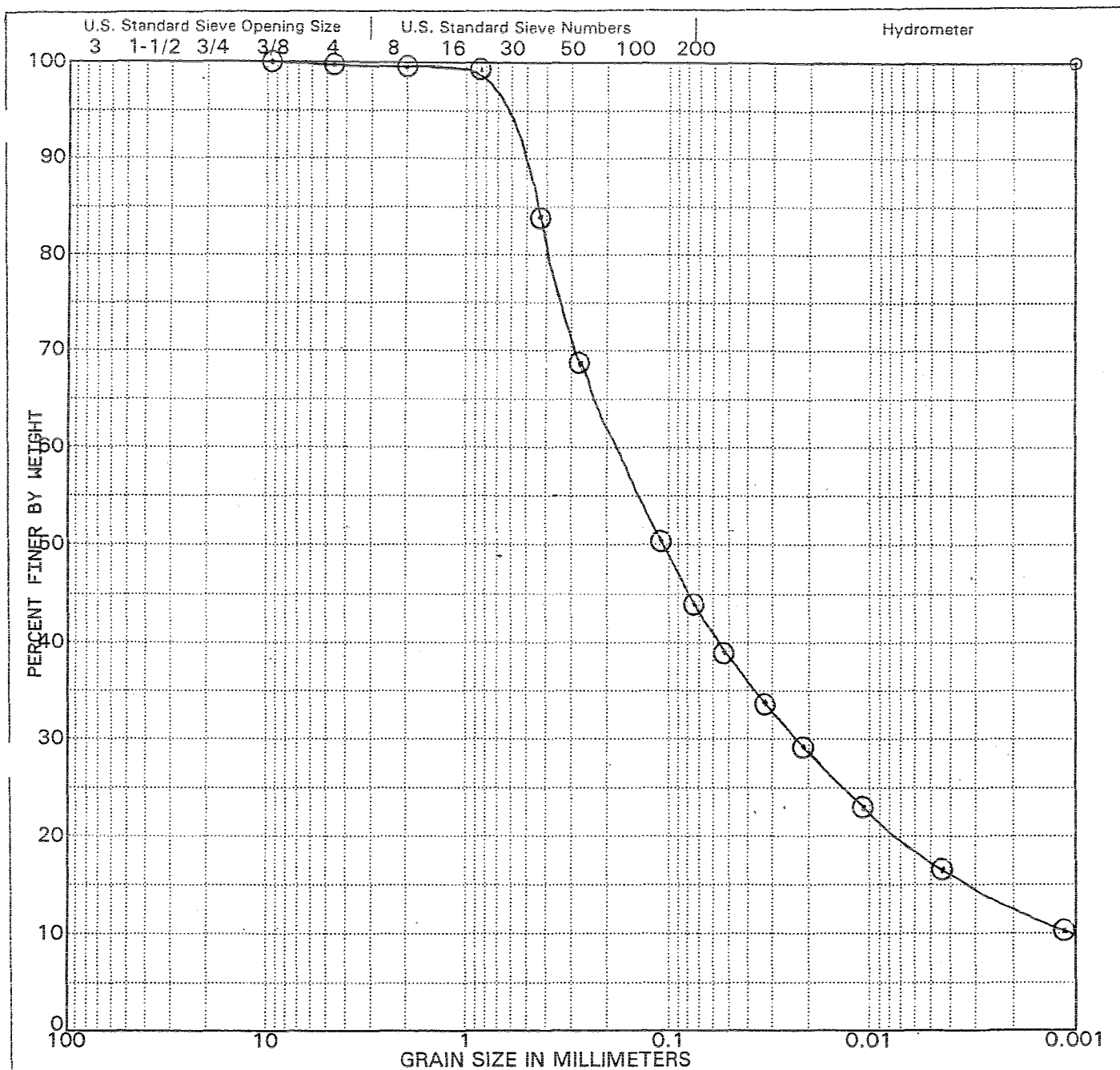
SAMPLE ID: MKF0033-17 CLIENT: Sequoia Analytical  
PROJECT ID: MKE0033 - Calabazas DATE: 6/27/01

PLATE 8

PARTICLE SIZE ANALYSIS



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Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	0.00	Gravel Total	0.16
3/8"	0.00	Coarse Sand	0.15
#4	0.16	Medium Sand	15.54
#10	0.15	Fine Sand	39.91
#20	0.18	Sand Total	55.60
#40	15.36	Silt	27.23
#60	15.70	Clay	17.01
#140	18.02	Fines Total	44.24
#200	6.19	Grand Total	100.00

### SOIL CLASSIFICATION

**Brown Clayey Sand  
(SC)**

### USDA CLASSIFICATION

**Sandy Loam**

SAMPLE ID: MKF0033-19 CLIENT: Sequoia Analytical

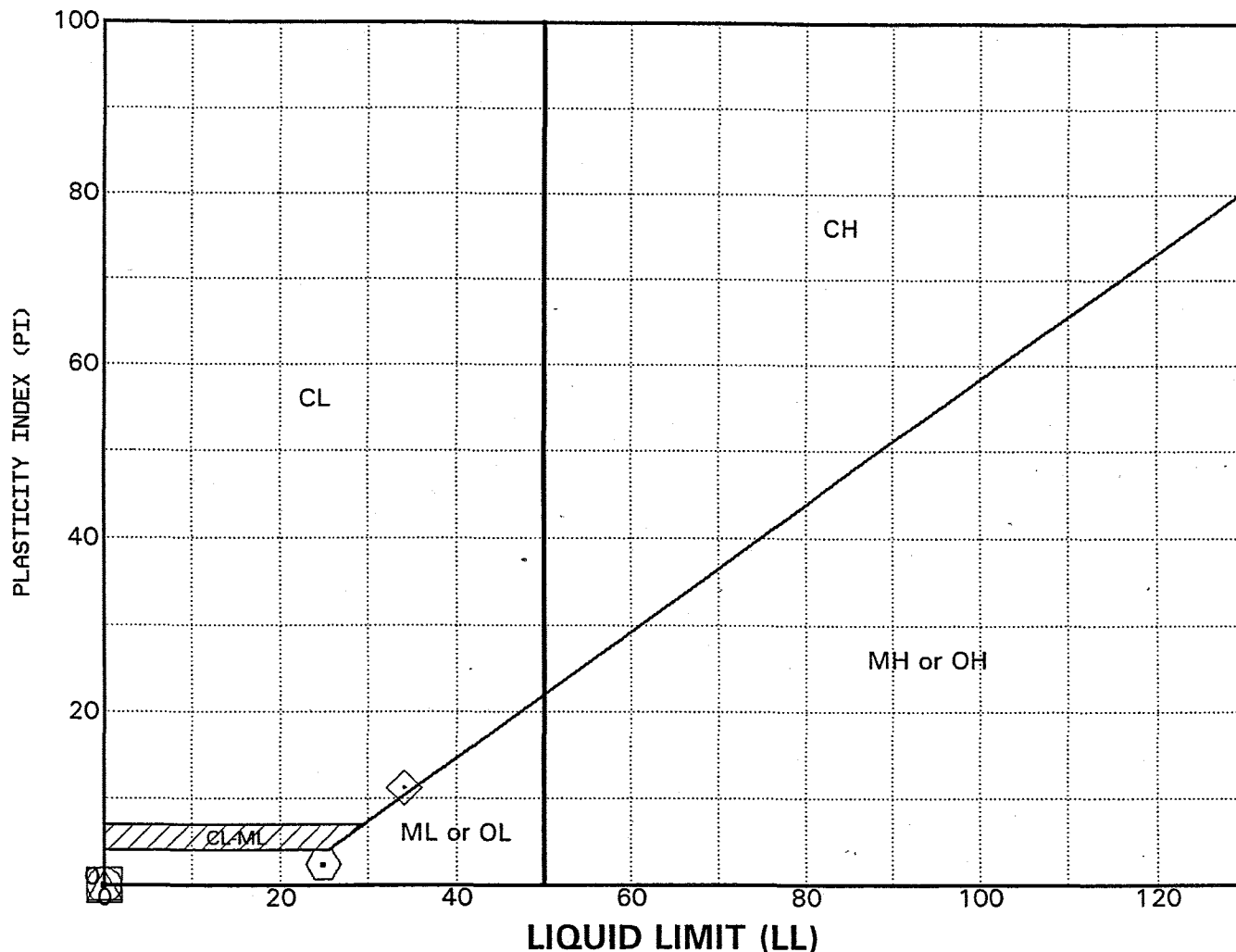
PROJECT ID: MKE0033 - Calabazas DATE: 6/27/01

PLATE 9

PARTICLE SIZE ANALYSIS



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SAMPLE SOURCE	CLASSIFICATION	LIQUID LIMIT (%)	PLASTIC LIMIT (%)	PLASTICITY INDEX (%)	% PASSING #200 SIEVE
⊙ 01 @ 0.0'	Grey Sand W/Gravel (SP)	NP	NP	NP	
□ 04 @ 0.0'	Grey Sand W/Gravel (SP)	NP	NP	NP	
△ 05 @ 0.0'	Grey Sand W/Gravel (SP)	NP	NP	NP	
◇ 08 @ 0.0'	Brown Clayey Sand w/Gravel (SC)	34	23	11	
⊙ 12 @ 0.0'	Brown Silty Sand (SM)	25	23	2	



Environmental LOCATION: Calabazas  
 Technical PROJECT: MKF0033  
 Services DATE: June 2001

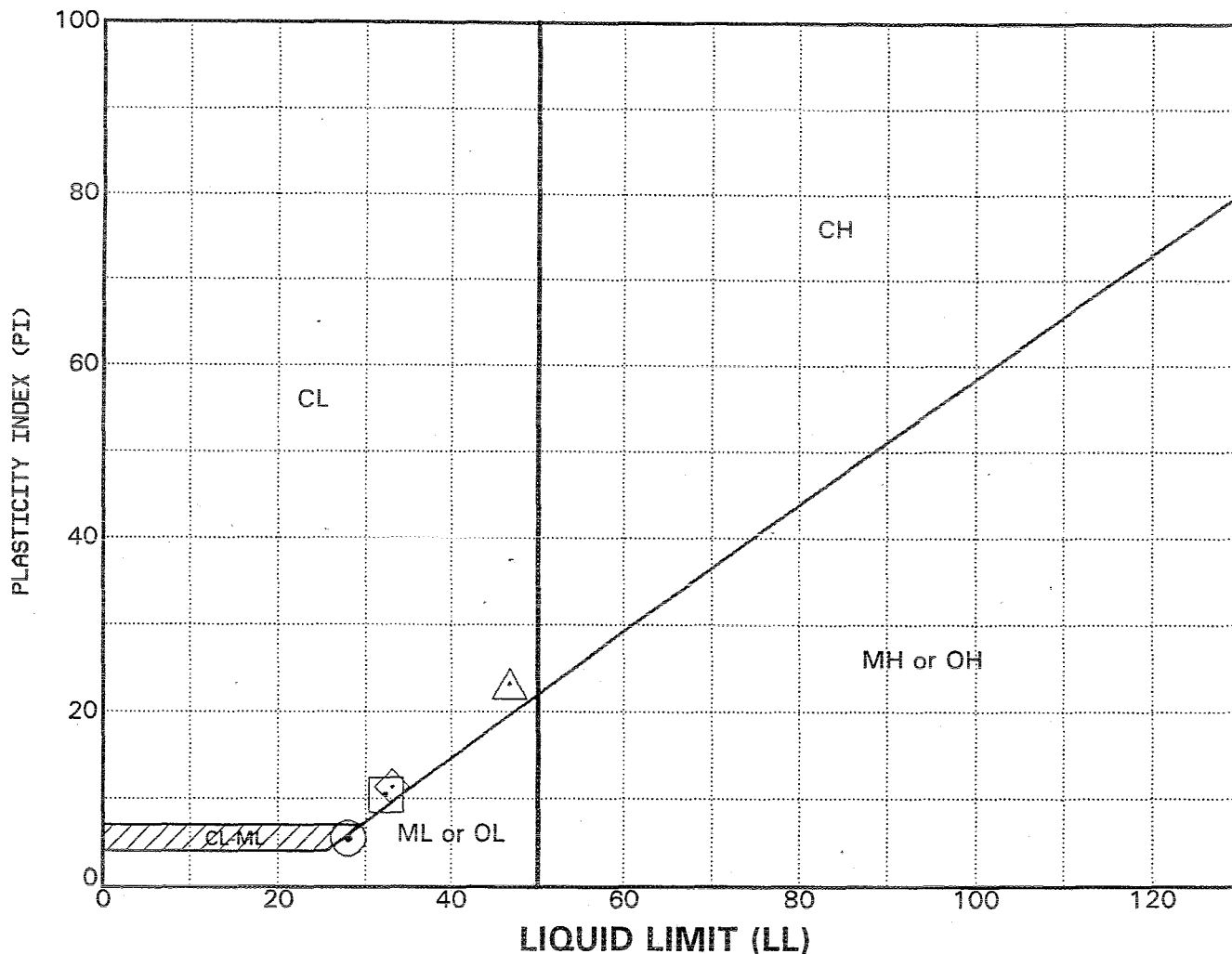
## PLASTICITY CHART

### SAMPLE IDS

01 = MKF0033-01 04 = MKF0033-04  
 05 = MKF0033-05 08 = MKF0033-08  
 12 = MKF0033-12

PLATE

1



SAMPLE SOURCE	CLASSIFICATION	LIQUID LIMIT (%)	PLASTIC LIMIT (%)	PLASTICITY INDEX (%)	% PASSING #200 SIEVE
⊙ 13 @ 0.0'	Brown Silty Sand (SM)	28	22	6	
□ 14 @ 0.0'	Brown Clayey Sand (SC)	32	22	10	
△ 17 @ 0.0'	Light Brown Sandy Clay (CL)	47	24	23	
◇ 19 @ 0.0'	Brown Clayey Sand (SC)	33	22	11	



Environmental LOCATION: Calabazas  
 Technical PROJECT: MKF0033  
 Services DATE: June 2001

## PLASTICITY CHART

### SAMPLE IDs

13 = MKF0033-13 14 = MKF0033-14  
 17 = MKF0033-17 19 = MKF0033-19

PLATE

2



# ETS

1343 Redwood Way  
Petaluma, CA 94954

(707) 795-9605/FAX 795-9384

Environmental  
Technical  
Services

Soil, Water, Air, Plant  
Tissue and Other  
Testing & Monitoring  
Analytical Labs  
Technical Support

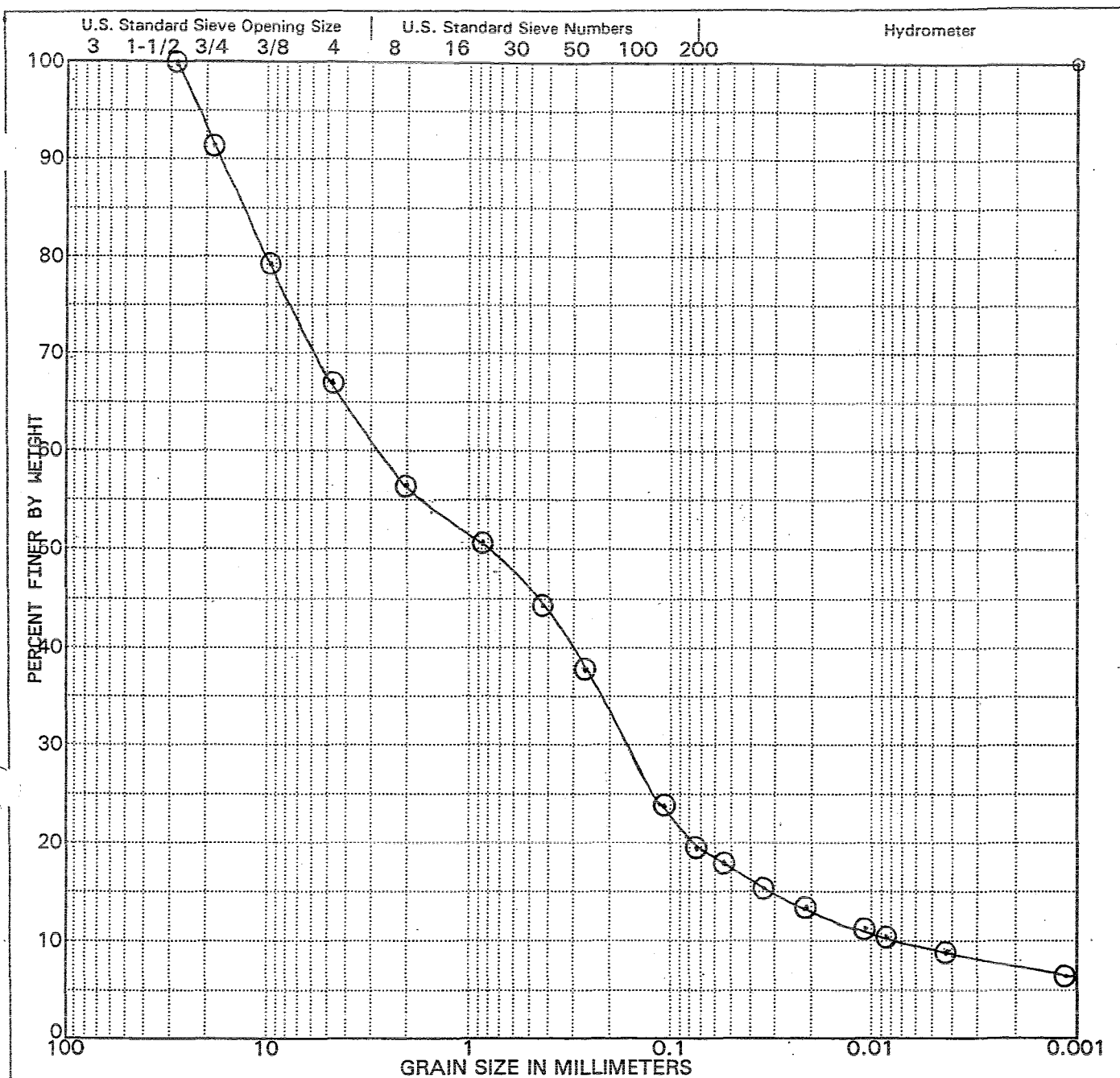
*Serving people and the environment so that both benefit.*

COMPANY: Sequoia Analytical, 885 Jarvis Drive, Morgan Hill, CA 95037					ANALYST(S)		SUPERVISOR	
ATTN: Jeff Smyly					S. Banwait		D. Jacobson	
SITE LOCATION: Calera ESC; California					R. Conrad		LAB DIRECTOR	
					J. Nelson		G. Conrad PhD	
01 Calera ESC 01 01 Calera ESC								
HYDROMETER & SIEVE ANALYSIS REPORT CCO1								
LAB NUMBER: 01-06-0147 SAMPLE ID: MKF0202-01					LAB NUMBER: 01-06-0148 SAMPLE ID: MKF0202-02			
SIEVE SIZE (SCREEN #)	FINES PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM
3/4" Sieve		92.15	7.85	Coarse Gravel		100.00	10.62	Coarse Gravel
3/8" Sieve		79.12	13.03	Fine Gravel		75.60	8.23	Fine Gravel
Sieve #4		66.96	12.16			59.29	4.93	
Sieve #10		56.82	10.14	Coarse Sand		28.53	3.43	Coarse Sand
Sieve #20		50.60	6.22	Medium Sand		9.40	1.97	Medium Sand
Sieve #40		44.89	5.71			2.13	1.43	
Sieve #60		37.68	7.21	Fine Sand		0.33	4.02	Fine Sand
Sieve #140		23.86	13.82			0.12	21.39	
Sieve #200		19.74	4.12			0.08	6.14	
SILT (0.074)	✓ 11.11	Grvl Total-> 33.04 Sand Total-> 47.22 Fines Total-> 19.74 Sum Total-> 100.00		SILT (0.074)	✓ 22.44	Grvl Total-> 23.78 Sand Total-> 38.38 Fines Total-> 37.84 Sum Total-> 100.00		Mud
CLAY (0.005)	8.63			CLAY (0.005)	15.40			(Silt & Clay)

\*\*\*\*\*  
COMMENTS

These two samples have similar high gravel content, but end up in different classes due to differences in sand and mud percentages. The mud content of one sample (-02) is high enough that this is the dominant texture as concerns classification (i.e., Atterbergs); the other sample has enough sand that sand is the dominant texture. As a result, one is a silty clayey sand with gravel (-01), while the other is a sandy clay with gravel (-02). They would occupy different positions within sand bar (or possibly flood bank) deposits, but both are indicative of high energy a good part of the time as well as moderate to low energy some of the time.

NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet sieved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule. Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.



Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	7.85	Gravel Total	33.04
3/8"	13.03	Coarse Sand	10.14
#4	12.16	Medium Sand	11.93
#10	10.14	Fine Sand	25.15
#20	6.22	Sand Total	47.22
#40	5.71	Silt	11.11
#60	7.21	Clay	8.63
#140	13.82	Fines Total	19.74
#200	4.12	Grand Total	100.00

#### ASTM CLASSIFICATION

**Brown Silty Clayey  
Sand w/ gravel (SC-SM)**

#### USDA CLASSIFICATION

**Sandy Loam**

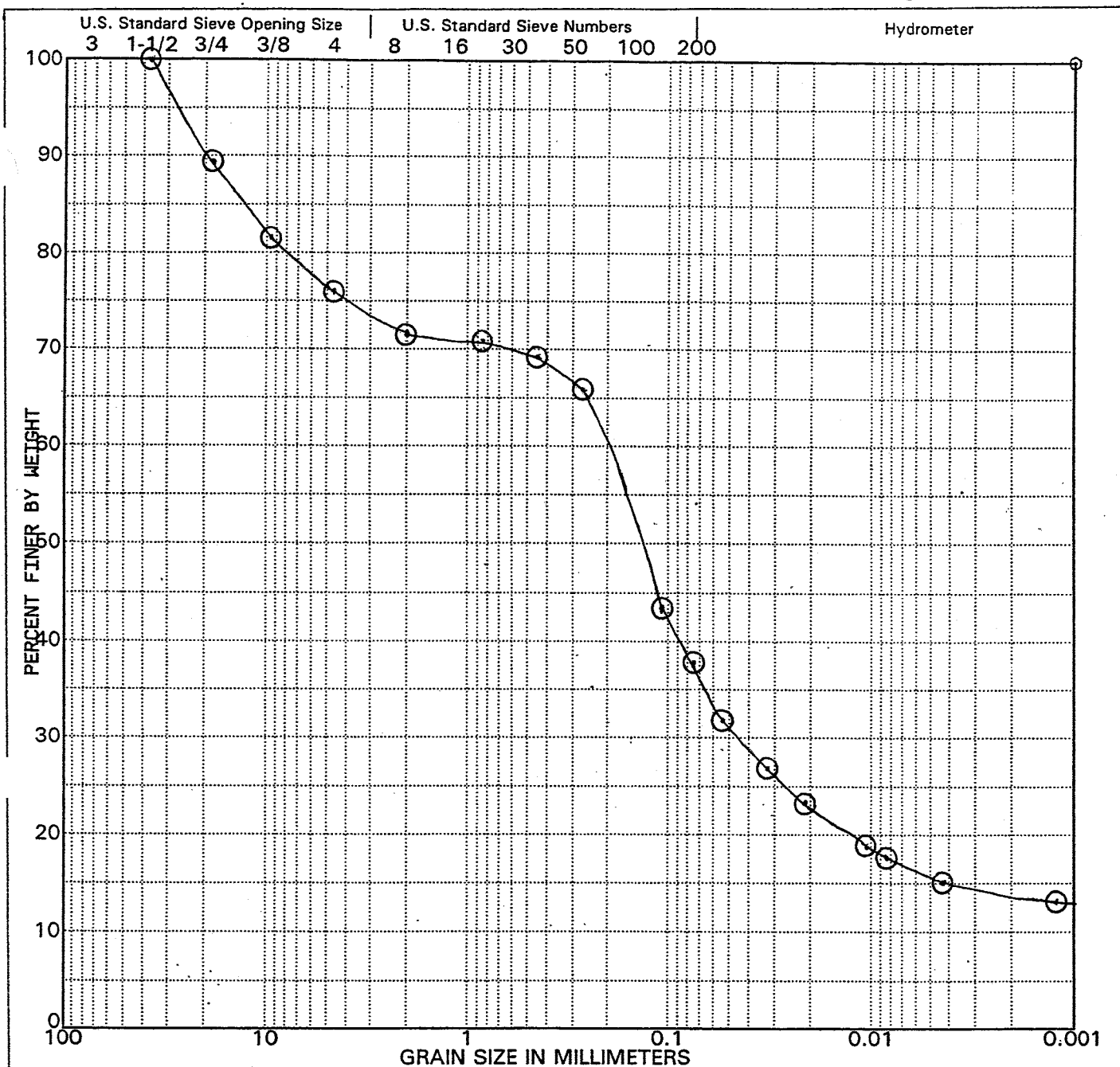
SAMPLE ID: MKF0202-01 CLIENT: Sequoia Analytical  
PROJECT ID: MKF0202 - Calera ESC DATE: 7/03/01

PLATE 1

PARTICLE SIZE ANALYSIS



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Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	10.62	Gravel Total	23.78
3/8"	8.23	Coarse Sand	3.43
#4	4.93	Medium Sand	3.40
#10	3.43	Fine Sand	31.55
#20	1.97	Sand Total	38.38
#40	1.43	Silt	22.44
#60	4.02	Clay	15.40
#140	21.39	Fines Total	37.84
#200	6.14	Grand Total	100.00

#### ASTM CLASSIFICATION

**Brown Sandy Clay  
w/ gravel (CL)**

#### USDA CLASSIFICATION

Loam

SAMPLE ID: MKF0202-02 CLIENT: Sequoia Analytical  
PROJECT ID: MKF0202 - Calera ESC DATE: 7/03/01

PLATE 2

PARTICLE SIZE ANALYSIS



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**ETS**1343 Redwood Way  
Petaluma, CA 94954

(707) 795-9605/FAX 795-9384

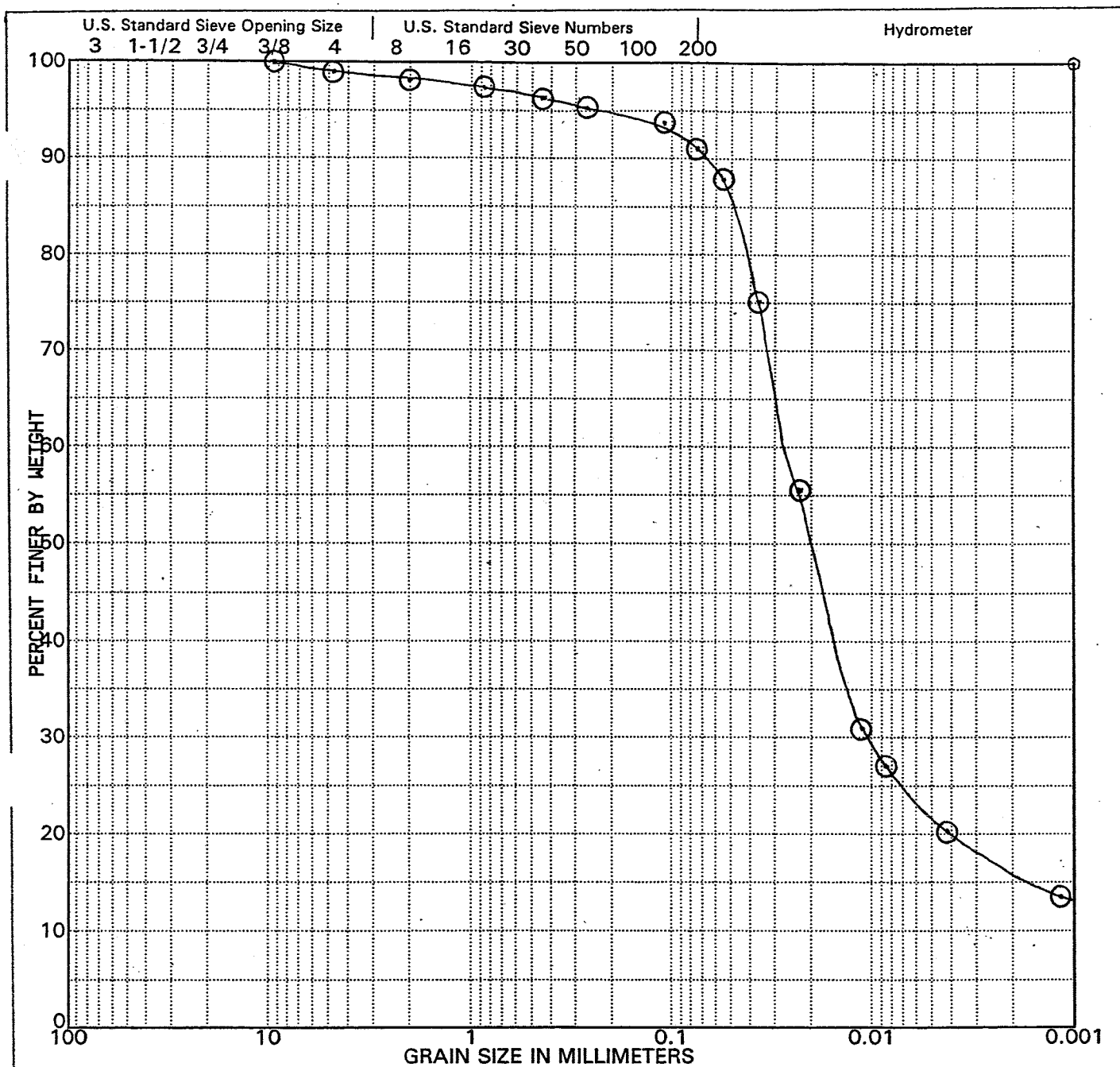
**Environmental  
Technical  
Services****Soil, Water, Air, Plant  
Tissue and Other  
Testing & Monitoring  
Analytical Labs  
Technical Support****Serving people and the environment so that both benefit.**

COMPANY: Sequoia Analytical, 885 Jarvis Drive, Morgan Hill, CA 95037						ANALYST(S)		SUPERVISOR	
ATTN: Jeff Smyly				DATE COLLECTED		DATE RECEIVED		DATE of REPORT	
SITE LOCATION: Calera Mill; California				6/7/01		6/13/01		7/3/01	
						S. Banwait		D. Jacobson	
						R. Conrad		LAB DIRECTOR	
						J. Nelson		G. Conrad PhD	
01 Calera Mill 01 01 Calera Mill CC01									
HYDROMETER & SIEVE ANALYSIS REPORT									
LAB NUMBER: 01-06-0145 SAMPLE ID: MKF0199-01 LAB NUMBER: 01-06-0146 SAMPLE ID: MKF0199-02									
SIEVE SIZE FINES PERCENT PERCENT (UNIFIED) HYDROMETER PERCENT PERCENT (UNIFIED) (SCREEN #) PERCENTAGE PASSING RETAINED SYSTEM PERCENTAGE PASSING RETAINED SYSTEM									
3/4" Sieve   100.00 0.00 Coarse Gravel   100.00 0.00 Coarse Gravel									
3/8" Sieve   100.00 0.00 Fine Gravel   100.00 0.00 Fine Gravel									
Sieve #4   99.01 0.99   59.29 5.34									
Sieve #10   98.55 0.46 Coarse Sand   28.53 3.38 Coarse Sand									
Sieve #20   98.19 0.36 Medium Sand   9.40 4.10 Medium Sand									
Sieve #40   96.15 2.04   2.13 3.12									
Sieve #60   95.29 0.86 Fine Sand   0.33 3.78 Fine Sand									
Sieve #140   88.65 6.64   0.12 13.94									
Sieve #200   81.41 7.24   0.08 4.20									
SILT (0.074) ✓ 59.46 SILT (0.074) ✓ 47.00 Mud									
CLAY (0.005) 21.95 Grvl Total-> 0.99 CLAY (0.005) 15.14 Grvl Total-> 5.34 (Silt & Clay)									
Sand Total-> 17.60 Sand Total-> 32.52									
Fines Total-> 81.41 Fines Total-> 62.14									
Sum Total-> 100.00 Sum Total-> 100.00									

\*\*\*\*\*  
COMMENTS

These two samples are both silt deposits, but vary in their sand (and gravel) percentages enough that they classify slightly differently (in ASTM and USDA); the gravel content is greater in one but still below the required 15% necessary to modify the class. Both represent broadly similar deposits indicative of low energy flow regimes with occasional moderate energy input (in both) ranging to high energy in one case (-02). These are slack water deposits of pools and downstream bar locations; or near channel overbank deposits with one sample being closer in (-02) than the other (-01).

NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet sieved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule. Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.



Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	0.00	Gravel Total	0.99
3/8"	0.00	Coarse Sand	0.46
#4	0.99	Medium Sand	2.40
#10	0.46	Fine Sand	14.74
#20	0.36	Sand Total	17.60
#40	2.04	Silt	59.46
#60	0.86	Clay	21.95
#140	6.64	Fines Total	81.41
#200	7.24	Grand Total	100.00

#### ASTM CLASSIFICATION

**Brown Silt  
w/ sand (MH)**

#### USDA CLASSIFICATION

**Silt Loam**

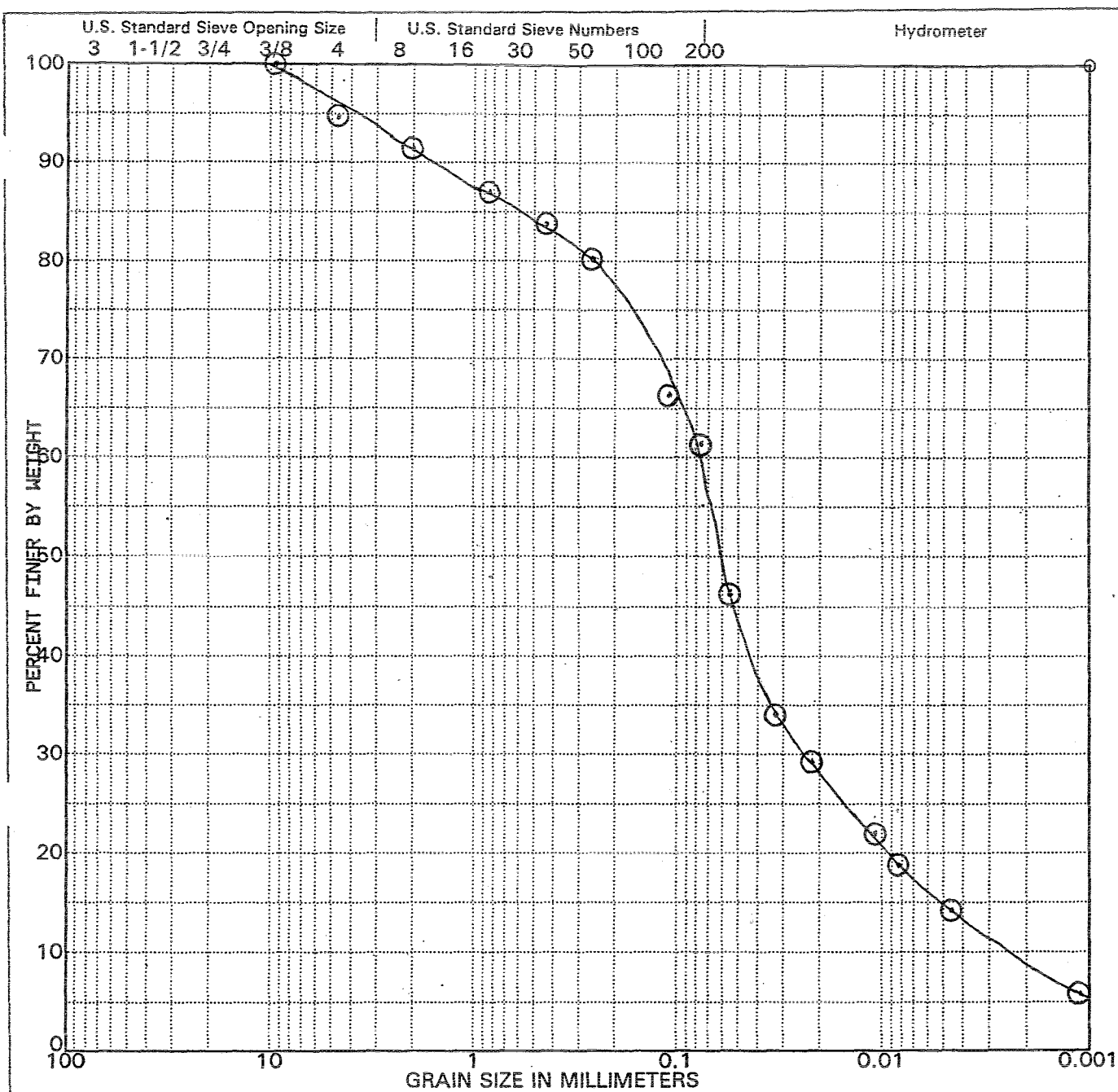
SAMPLE ID: MKF0199-01 CLIENT: Sequoia Analytical  
PROJECT ID: MKF0199 - Calera Mill DATE: 7/03/01

PLATE 1

PARTICLE SIZE ANALYSIS



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Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	0.00	Gravel Total	5.34
3/8"	0.00	Coarse Sand	3.38
#4	5.34	Medium Sand	7.22
#10	3.38	Fine Sand	21.92
#20	4.10	Sand Total	32.52
#40	3.12	Silt	47.00
#60	3.78	Clay	15.14
#140	13.94	Fines Total	62.14
#200	4.24	Grand Total	100.00

#### ASTM CLASSIFICATION

**Dark Brown Sandy  
Silt (MH)**

#### USDA CLASSIFICATION

**Loam**

SAMPLE ID: MKF0199-02 CLIENT: Sequoia Analytical  
PROJECT ID: MKF0199 - Calera Mill DATE: 7/03/01

PLATE 2

PARTICLE SIZE ANALYSIS



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# ETS

1343 Redwood Way  
Petaluma, CA 94954  
(707) 795-9605/FAX 795-9384

Environmental  
Technical  
Services

Soil, Water, Air, Plant  
Tissue and Other  
Testing & Monitoring  
Analytical Labs  
Technical Support

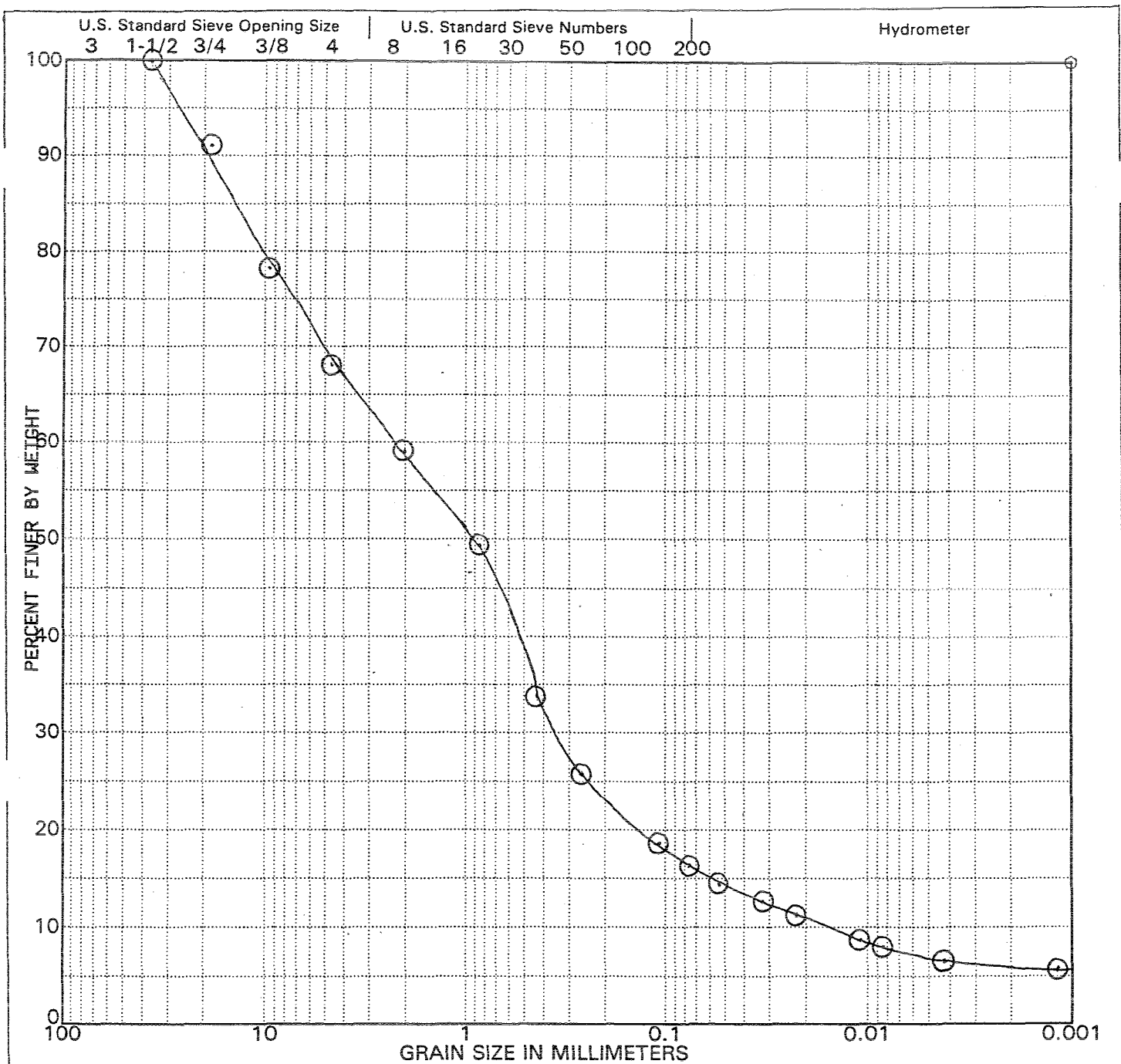
*Serving people and the environment so that both benefit.*

COMPANY: Sequoia Analytical, 885 Jarvis Drive, Morgan Hill, CA 95037					ANALYST(S)		SUPERVISOR	
ATTN: Jeff Smyly					S. Banwait		D. Jacobson	
SITE LOCATION: Canoas; California					R. Conrad		LAB DIRECTOR	
					J. Nelson		G. Conrad PhD	
					DATE COLLECTED		DATE RECEIVED	
					6/8/01		6/15/01	
					DATE of REPORT		7/11/01	
<b>HYDROMETER &amp; SIEVE ANALYSIS REPORT</b>								
LAB NUMBER: 01-06-0242 SAMPLE ID: MKF0272-01 LAB NUMBER: 01-06-0243 SAMPLE ID: MKF0272-02								
SIEVE SIZE (SCREEN #)	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM
3/4" Sieve		90.76	9.24	Coarse Gravel		97.76	2.24	Coarse Gravel
3/8" Sieve		78.02	12.74	Fine Gravel		89.99	7.77	Fine Gravel
Sieve #4		67.86	10.16			74.93	15.06	
Sieve #10		59.21	8.65	Coarse Sand		64.04	10.89	Coarse Sand
Sieve #20		49.84	9.37	Medium Sand		50.80	13.24	Medium Sand
Sieve #40		34.13	15.71			33.70	17.10	
Sieve #60		25.36	8.77	Fine Sand		22.06	11.64	Fine Sand
Sieve #140		18.30	7.06			15.78	6.78	
Sieve #200		16.49	1.81			14.25	1.03	
SILT (0.074)	√	9.42		SILT (0.074)	√	8.50		Mud
CLAY (0.005)	7.07			CLAY (0.005)	5.75			(Silt & Clay)
		Grvl Total-> 32.14				Grvl Total-> 25.07		
		Sand Total-> 51.37				Sand Total-> 60.68		
		Fines Total-> 16.49				Fines Total-> 14.25		
		Sum Total-> 100.00				Sum Total-> 100.00		

\*\*\*\*\*  
COMMENTS

These samples are very similar except that one classifies as a clayey sand (i.e., the clay is dominant), while the other classifies as a silty sand; both have similar significant gravel and mud. As a result, both appear to represent very similar depositional regimes where the dominant energy is moderate, but the total range is very low to (just barely) high. They may represent similar parts of sand bar depositional sequences, or perhaps mid-distance over-bank deposits.

NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet sieved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule. Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.



Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES
3/4"	9.24	Gravel Total -----> 32.14
3/8"	12.74	Coarse Sand ----> 8.65
#4	10.16	Medium Sand ----> 25.08
#10	8.65	Fine Sand -----> 17.64
#20	9.37	Sand Total -----> 51.37
#40	15.71	Silt -----> 9.42
#60	8.77	Clay -----> 7.07
#140	7.06	Fines Total -----> 16.49
#200	1.81	Grand Total -----> 100.00

#### ASTM CLASSIFICATION

**Gray Black Clayey  
Sand w/ gravel (SC)**

#### USDA CLASSIFICATION

**Sandy Loam**

SAMPLE ID: MKF0272-01 CLIENT: Sequoia Analytical

PROJECT ID: MKF0272 - Canoas

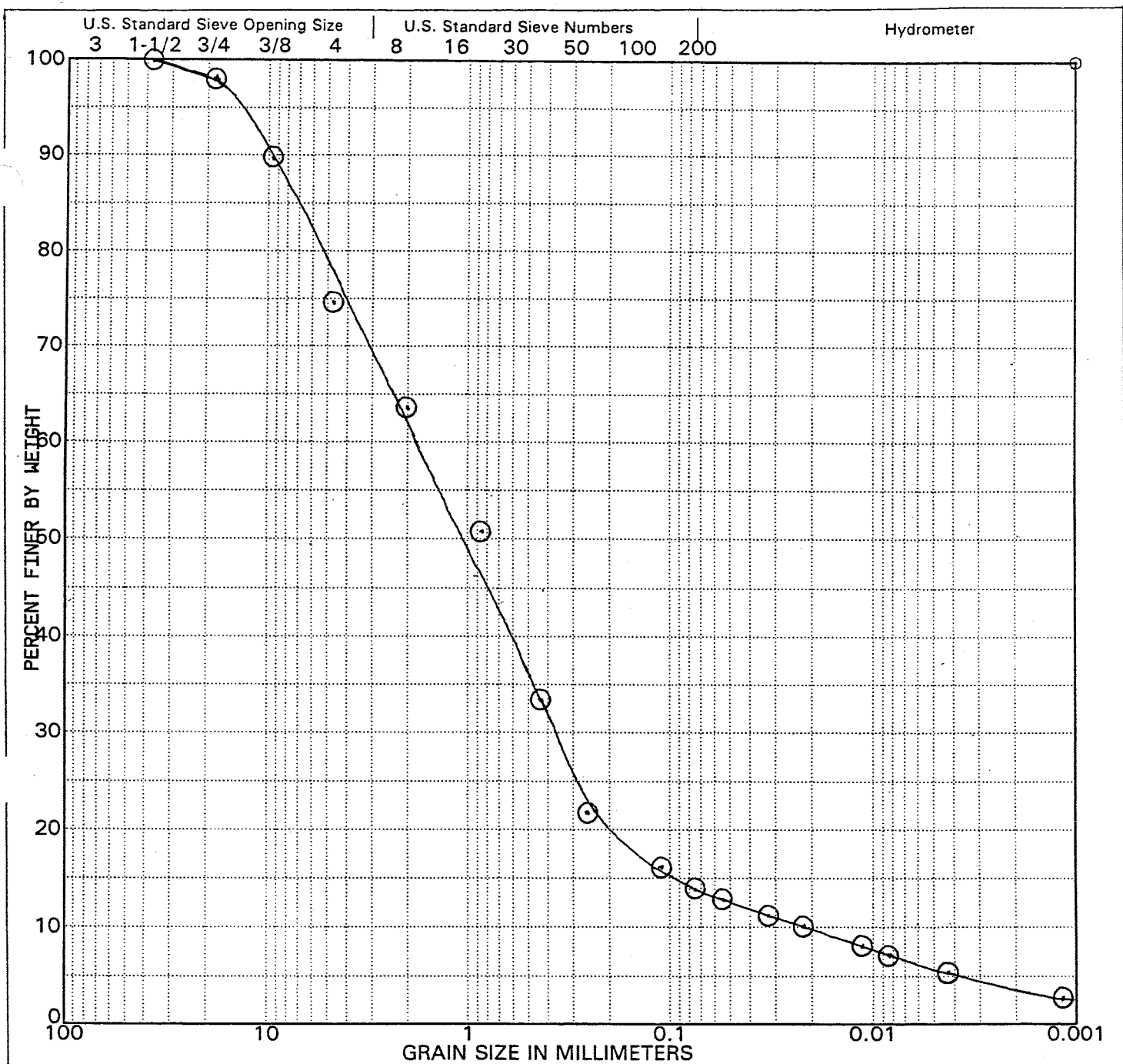
DATE: 7/11/01

PLATE 1

**PARTICLE SIZE ANALYSIS**



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Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	2.24	Gravel Total	25.07
3/8"	7.77	Coarse Sand	10.89
#4	15.06	Medium Sand	30.34
#10	10.89	Fine Sand	19.45
#20	13.24	Sand Total	60.68
#40	17.10	Silt	8.50
#60	11.64	Clay	5.75
#140	6.78	Fines Total	14.25
#200	1.03	Grand Total	100.00

#### ASTM CLASSIFICATION

**Gray Black Silty  
Sand w/ gravel (SM)**

#### USDA CLASSIFICATION

**Loamy Sand**

SAMPLE ID: MKF0272-02 CLIENT: Sequoia Analytical  
PROJECT ID: MKF0272 - Canoas DATE: 7/11/01

PLATE 2

PARTICLE SIZE ANALYSIS



**E  
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# ETS

1343 Redwood Way  
Petaluma, CA 94954

(707) 795-9605/FAX 795-9384

Environmental  
Technical  
Services

Soil, Water, Air, Plant  
Tissue and Other  
Testing & Monitoring  
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Technical Support

*Serving people and the environment so that both benefit.*

COMPANY: Sequoia Analytical, 885 Jarvis Drive, Morgan Hill, CA 95037				ANALYST(S)		SUPERVISOR
ATTN: Jeff Smyly				S. Banwait		D. Jacobson
SITE LOCATION: Coyote; California				R. Conrad		LAB DIRECTOR
				J. Nelson		G. Conrad PhD
DATE COLLECTED				DATE RECEIVED		
6/12/01				6/15/01		
DATE of REPORT				7/11/01		

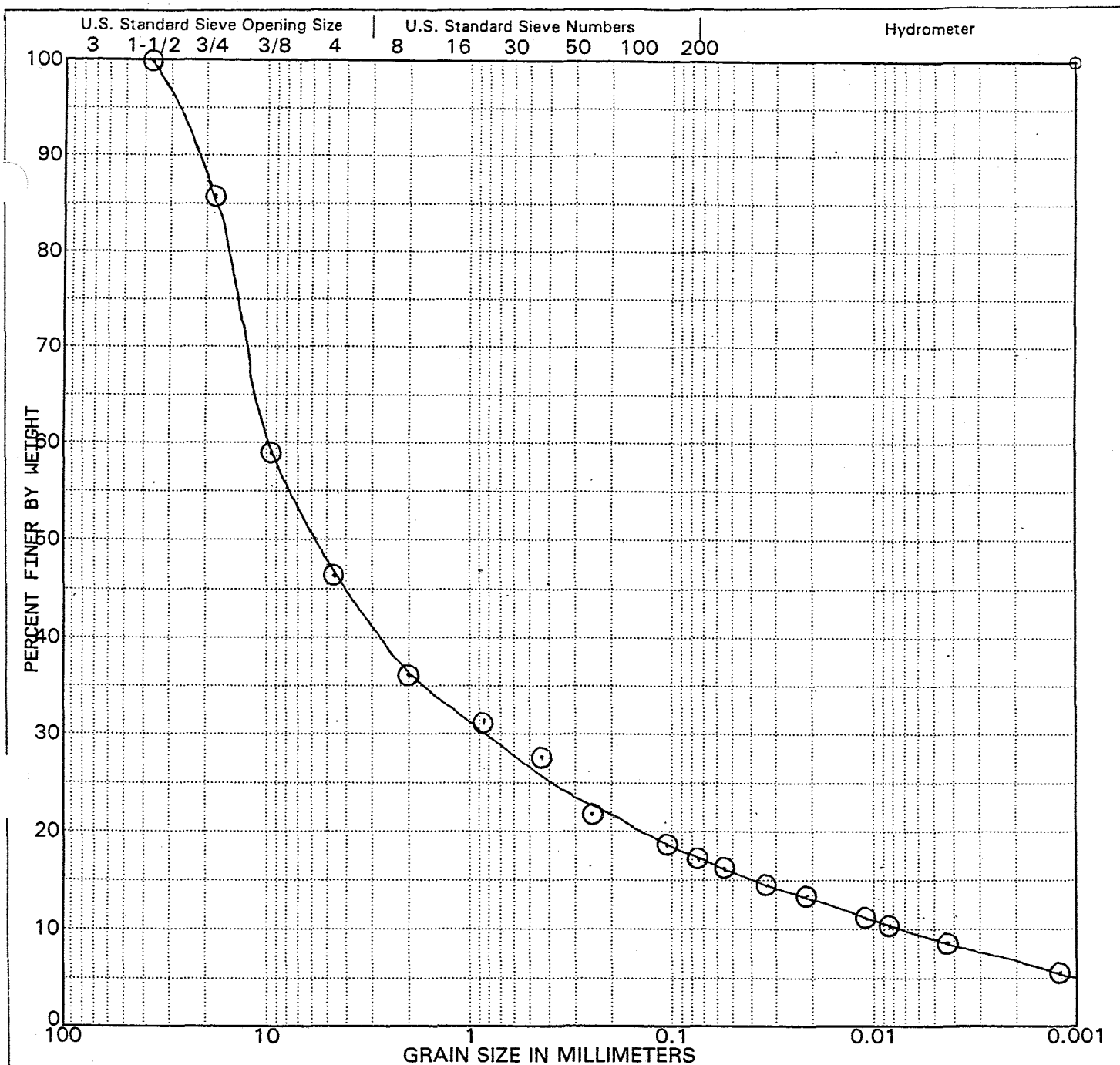
*01Coyote*  
**HYDROMETER & SIEVE ANALYSIS REPORT**  
*01Coyote*  
*CC01*

SIEVE SIZE (SCREEN #)	LAB NUMBER: 01-06-0244 SAMPLE ID: MKF0287-01				LAB NUMBER: 01-06-0245 SAMPLE ID: MKF0287-02			
	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM
3/4" Sieve		85.28	14.72	Coarse Gravel		93.71	6.29	Coarse Gravel
3/8" Sieve		57.99	27.29	Fine Gravel		60.58	33.13	Fine Gravel
Sieve #4		46.18	11.81			42.06	18.52	
Sieve #10		35.90	10.28	Coarse Sand		30.67	11.39	Coarse Sand
Sieve #20		31.70	4.20	Medium Sand		25.84	4.83	Medium Sand
Sieve #40		27.64	4.06			20.67	5.17	
Sieve #60		22.13	5.51			16.51	4.16	
Sieve #140		18.65	3.48			13.74	2.77	
Sieve #200		17.40	1.25	Fine Sand		12.40	1.34	Fine Sand
SILT (0.074)	√ 8.36	<i>Grvl Total-&gt; 53.82</i> <i>Sand Total-&gt; 28.78</i> <i>Fines Total-&gt; 17.40</i> <i>Sum Total-&gt; 100.00</i>		SILT (0.074)	√ 6.54	<i>Grvl Total-&gt; 57.94</i> <i>Sand Total-&gt; 29.66</i> <i>Fines Total-&gt; 12.40</i> <i>Sum Total-&gt; 100.00</i>		Mud
CLAY (0.005)	9.04			CLAY (0.005)	5.86			(Silt & Clay)

\*\*\*\*\*  
**COMMENTS**  
\*\*\*\*\*

Both samples are clayey gravels with very similar textural profiles; there is significant sand (i.e., >15%), and minor but significant mud (i.e., >5%). Both represent similar depositional environments where the dominant energy is high, thus a fast flow regime is indicated. However, part of the time energies subside to moderate (i.e., sand), and even to the low end of the range (i.e., mud). They may represent borderline channel lag deposits where energy levels subside enough part of the time to allow for fines to settle out.

NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet sieved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule. Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.



Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES
3/4"	14.72	Gravel Total -----> 53.82
3/8"	27.29	Coarse Sand ----> 10.28
#4	11.81	Medium Sand ----> 8.26
#10	10.28	Fine Sand -----> 10.24
#20	4.20	Sand Total -----> 28.78
#40	4.06	Silt -----> 8.36
#60	5.51	Clay -----> 9.04
#140	3.48	Fines Total -----> 17.40
#200	1.25	Grand Total -----> 100.00

#### ASTM CLASSIFICATION

**Gray Clayey Gravel  
w/ sand (GC)**

#### USDA CLASSIFICATION

**Sandy Clay Loam**

SAMPLE ID: MKF0287-01 CLIENT: Sequoia Analytical

PROJECT ID: MKF0287 - Coyote DATE: 7/11/01

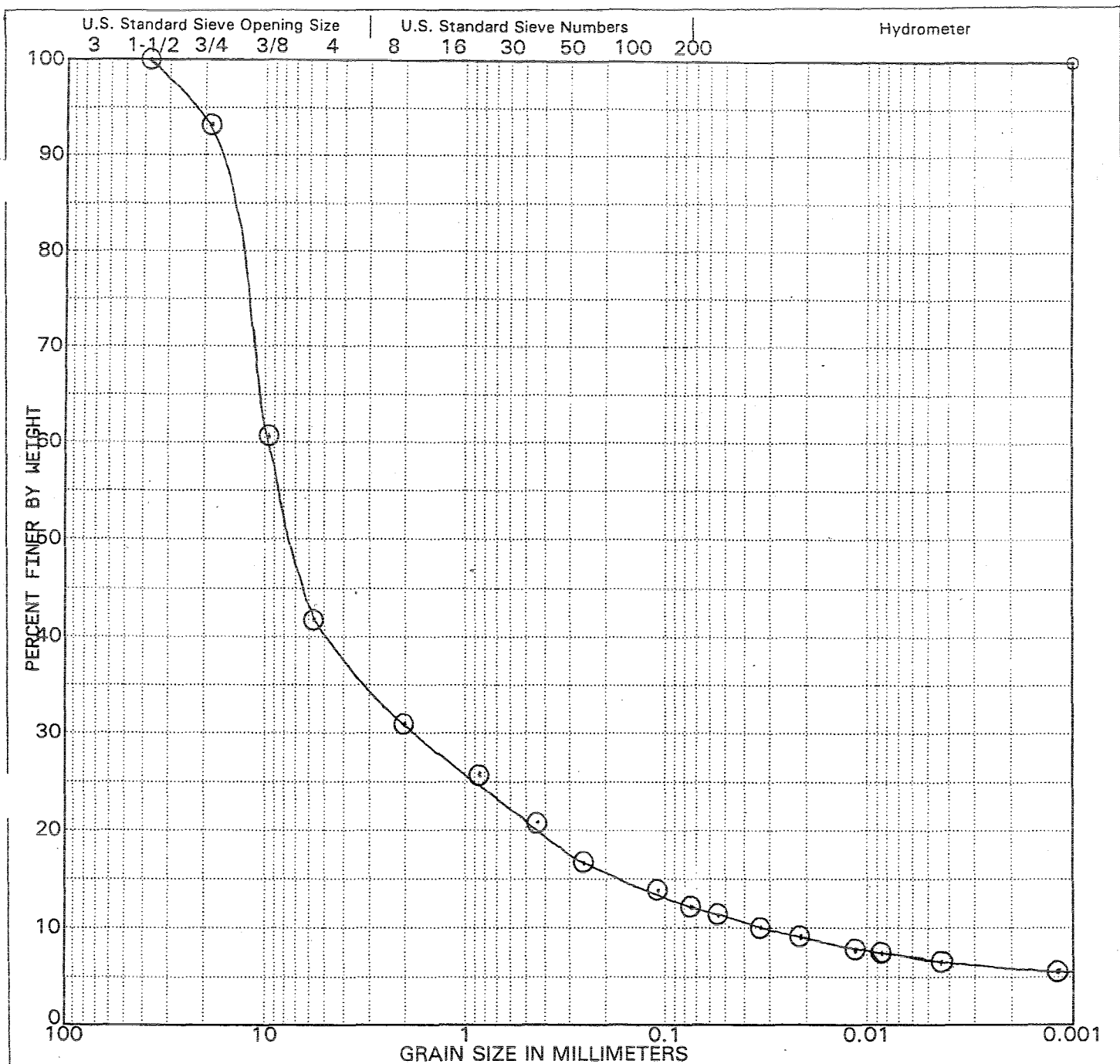
PLATE 1

PARTICLE SIZE ANALYSIS



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Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	6.29	Gravel Total	57.94
3/8"	33.13	Coarse Sand	11.39
#4	18.52	Medium Sand	10.00
#10	11.39	Fine Sand	8.27
#20	4.83	Sand Total	29.66
#40	5.17	Silt	6.54
#60	4.16	Clay	5.86
#140	2.77	Fines Total	12.40
#200	1.34	Grand Total	100.00

#### ASTM CLASSIFICATION

**Gray Clayey Gravel  
w/ sand (GC)**

#### USDA CLASSIFICATION

**Sandy Loam**

SAMPLE ID: MKF0287-02 CLIENT: Sequoia Analytical

PROJECT ID: MKF0287 - Coyote DATE: 7/11/01

PLATE 2

PARTICLE SIZE ANALYSIS



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COMPANY: Sequoia Analytical, 885 Jarvis Drive, Morgan Hill, CA 95037				ANALYST(S)		SUPERVISOR
ATTN: Jeff Smyly		DATE	DATE	DATE of	M. Walker	D. Jacobson
SITE LOCATION: Flint; California		COLLECTED	RECEIVED	REPORT	R. Conrad	LAB DIRECTOR
		6/14/01	6/20/01	7/13/01	J. Nelson	G. Conrad PhD

01 Flint + CCL

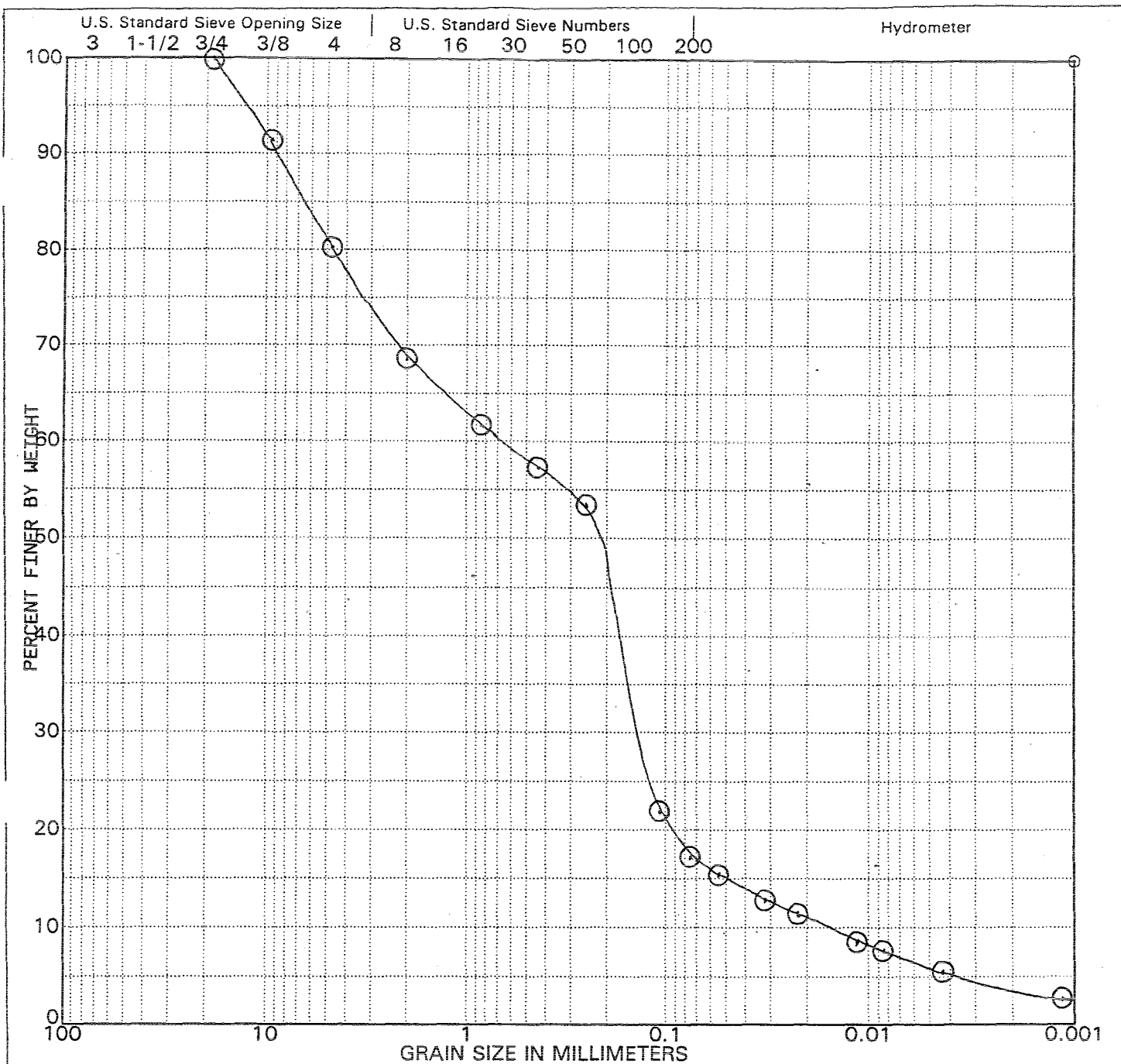
## HYDROMETER & SIEVE ANALYSIS REPORT

	LAB NUMBER: 01-06-0281		SAMPLE ID: MKF0299-01		LAB NUMBER:		SAMPLE ID:		
SIEVE SIZE (SCREEN #)	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	ASTM SYSTEM	FINES PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	ASTM SYSTEM	
3/4" Sieve		100.00	0.00	Coarse Gravel				Coarse Gravel	
3/8" Sieve		91.89	8.11	Fine Gravel				Fine Gravel	
Sieve #4		80.13	11.76						
Sieve #10		68.85	11.28	Coarse Sand				Coarse Sand	
Sieve #20		62.05	6.80	Medium Sand				Medium Sand	
Sieve #40		57.46	4.59						
Sieve #60		48.81	8.65	Fine Sand				Fine Sand	
Sieve #140		21.80	27.01						
Sieve #200		17.41	4.39						
SILT (0.074)	√	11.85		MUD (Silt + Clay)	√			Mud  (Silt & Clay)	
CLAY (0.005)	5.56	Grvl Total-> 19.87			Grvl Total-> 0.00				
		Sand Total-> 62.72			Sand Total-> 0.00				
		Fines Total-> 17.41			Fines Total-> 0.00				
		Sum Total-> 100.00			Sum Total-> 0.00				

## COMMENTS

This sample classifies as silty sand with gravel, but notice the mud content is almost as much as gravel. This is mostly a moderate energy deposit, but runs the range from low to high energy with changing conditions. It may be typical sand bar probably more indicative of downstream rather than upstream deposits

\\ NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet  
ved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS,  
ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or  
client specifications as a rule Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period.  
Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.



Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	0.00	Gravel Total	19.87
3/8"	8.11	Coarse Sand	11.28
#4	11.76	Medium Sand	11.39
#10	11.28	Fine Sand	40.05
#20	6.80	Sand Total	62.72
#40	4.59	Silt	11.85
#60	8.65	Clay	5.56
#140	27.01	Fines Total	17.41
#200	4.39	Grand Total	100.00

#### ASTM CLASSIFICATION

**Brown Silty Sand  
w/ gravel (SM)**

#### USDA CLASSIFICATION

**Loamy Sand**

SAMPLE ID: MKF0299-01 CLIENT: Sequoia Analytical

PROJECT ID: MKF0299 - Flint

DATE: 7/13/01

PLATE 1

PARTICLE SIZE ANALYSIS



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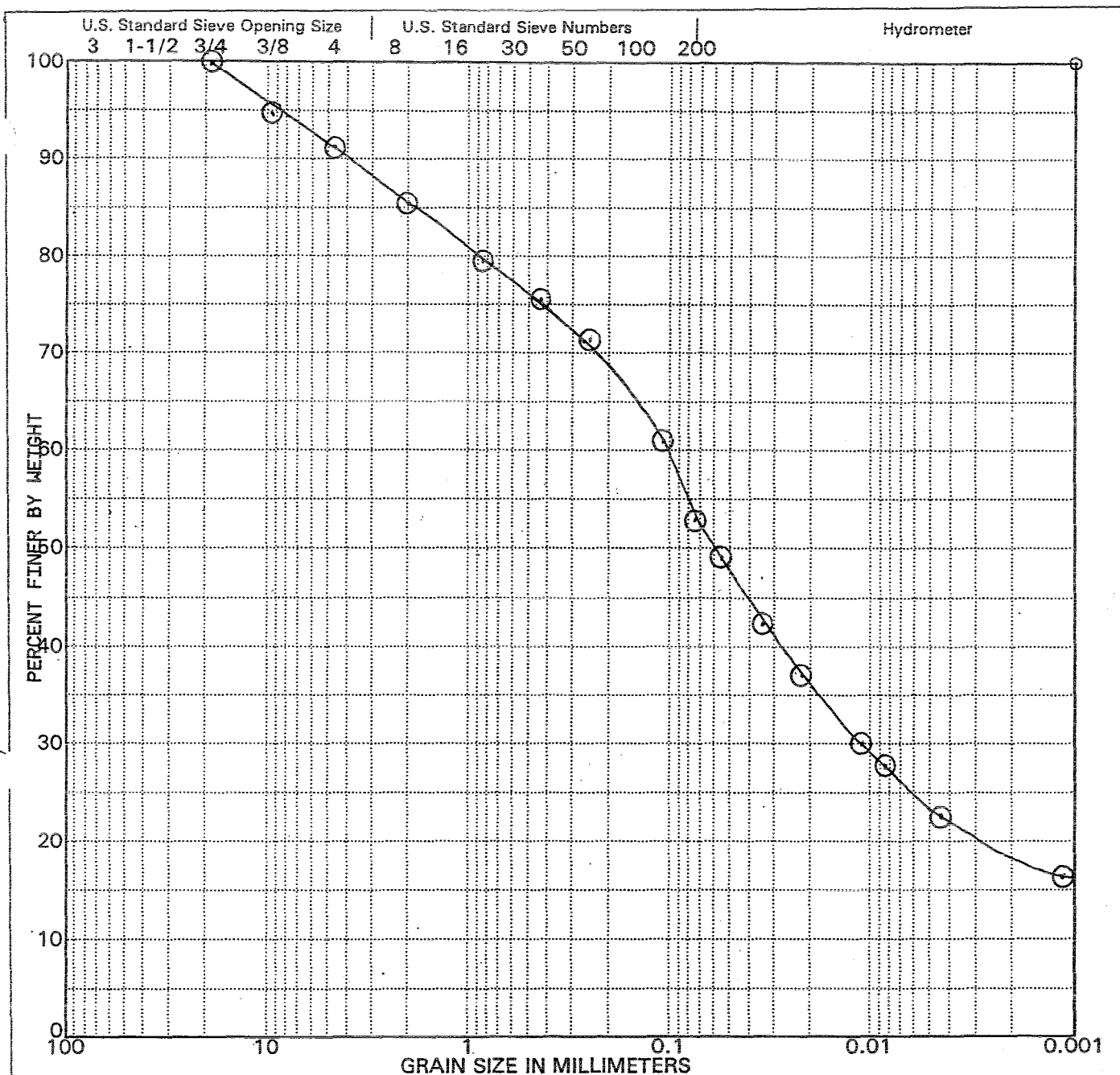
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COMPANY: Sequoia Analytical, 885 Jarvis Drive, Morgan Hill, CA 95037					ANALYST(S)		SUPERVISOR	
ATTN: Jeff Smyly					S. Banwait		D. Jacobson	
SITE LOCATION: Guadalupe; California					R. Conrad		LAB DIRECTOR	
					J. Nelson		G. Conrad PhD	
016Guadalupe.01016Guadalupe.02								
HYDROMETER & SIEVE ANALYSIS REPORT								
	LAB NUMBER: 01-06-0154 SAMPLE ID: MKF0274-01				LAB NUMBER: 01-06-0155 SAMPLE ID: MKF0274-02			
SIEVE SIZE (SCREEN #)	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	ASTM SYSTEM	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	ASTM SYSTEM
3/4" Sieve		100.00	0.00	Coarse Gravel		100.00	0.00	Coarse Gravel
3/8" Sieve		94.77	5.23	Fine Gravel		100.00	0.00	Fine Gravel
Sieve #4		91.07	3.70			97.36	2.64	
Sieve #10		85.28	5.79	Coarse Sand		95.51	1.85	Coarse Sand
Sieve #20		79.78	5.50	Medium Sand		94.08	1.43	Medium Sand
Sieve #40		75.97	3.81			90.86	3.22	
Sieve #60		71.58	4.39	Fine Sand		84.59	6.27	Fine Sand
Sieve #140		60.61	10.97			66.89	17.70	
Sieve #200		53.75	6.86			59.33	7.56	
SILT (0.074)	✓ 30.58			SILT (0.074)	✓ 37.56			Mud
CLAY (0.005)	23.17	Grvl Total-> 8.93 Sand Total-> 37.32 Fines Total-> 53.75 Sum Total-> 100.00		CLAY (0.005)	21.77	Grvl Total-> 2.64 Sand Total-> 38.03 Fines Total-> 59.33 Sum Total-> 100.00		(Silt & Clay)

\*\*\*\*\*  
COMMENTS

These two samples are both sandy clay deposits with negligible to minor gravel content. Notice that major class percentages parallel one another fairly closely. As a result, both classify the same in two systems, i.e., ASTM and USDA (which omits gravel in any case). Therefore, both represent very similar depositional situations indicative of mostly low energy flow regimes with occasional moderate energy input. These are slack water deposits of pools and downstream bar locations; or perhaps near channel overbank deposits.

NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet sieved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule. Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.



Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	0.00	Gravel Total	8.93
3/8"	5.23	Coarse Sand	5.79
#4	3.70	Medium Sand	9.31
#10	5.79	Fine Sand	22.22
#20	5.50	Sand Total	37.32
#40	3.81	Silt	30.58
#60	4.39	Clay	23.17
#140	10.97	Fines Total	53.75
#200	6.86	Grand Total	100.00

#### ASTM CLASSIFICATION

**Brown Sandy Clay  
(CL)**

#### USDA CLASSIFICATION

Loam

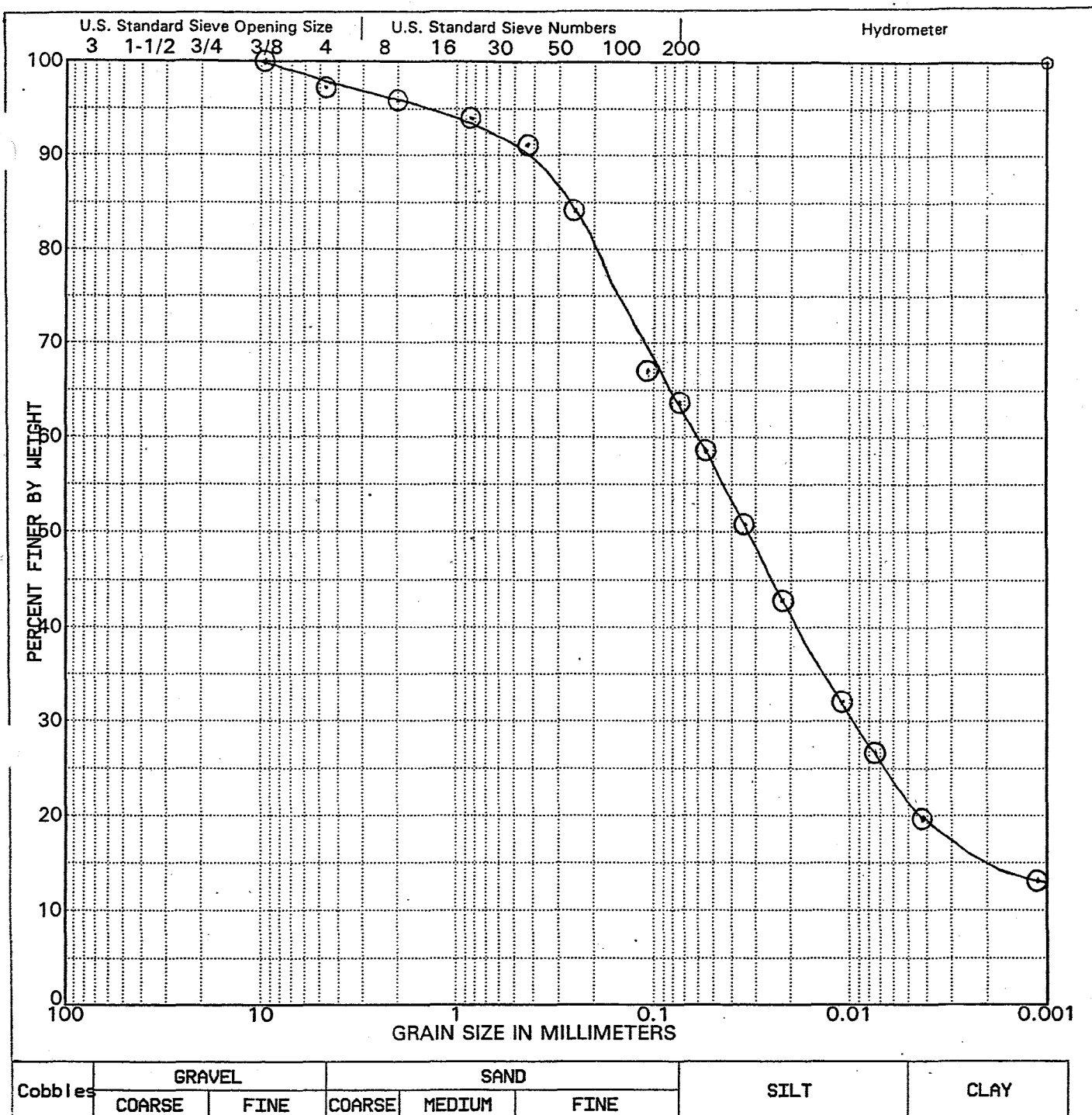
SAMPLE ID: MKF0274-01 CLIENT: Sequoia Analytical  
PROJECT ID: MKF0274 *Guadalupe* DATE: 7/06/01

PLATE 1

PARTICLE SIZE ANALYSIS



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SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	0.00	Gravel Total	2.64
3/8"	0.00	Coarse Sand	1.85
#4	2.64	Medium Sand	4.65
#10	1.85	Fine Sand	31.53
#20	1.43	Sand Total	38.03
#40	3.22	Silt	37.56
#60	6.27	Clay	21.77
#140	17.70	Fines Total	59.33
#200	7.56	Grand Total	100.00

#### ASTM CLASSIFICATION

**Brown Sandy Clay  
(CL)**

#### USDA CLASSIFICATION

Loam

SAMPLE ID: MKF0274-02 CLIENT: Sequoia Analytical  
PROJECT ID: MKF0274 - Guadalupe DATE: 7/06/01

PLATE 2

PARTICLE SIZE ANALYSIS



ETS

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COMPANY: Sequoia Analytical, 885 Jarvis Drive, Morgan Hill, CA 95037				ANALYST(S)		SUPERVISOR
ATTN: Jeff Smyly				DATE		D. Jacobson
SITE LOCATION: Guadalupe; California				COLLECTED	RECEIVED	LAB DIRECTOR
				6/12/01	6/13/01	G. Conrad PhD
				DATE of		
				REPORT		
				7/6/01		

016 Guadalupe 03

016 Guadalupe 003

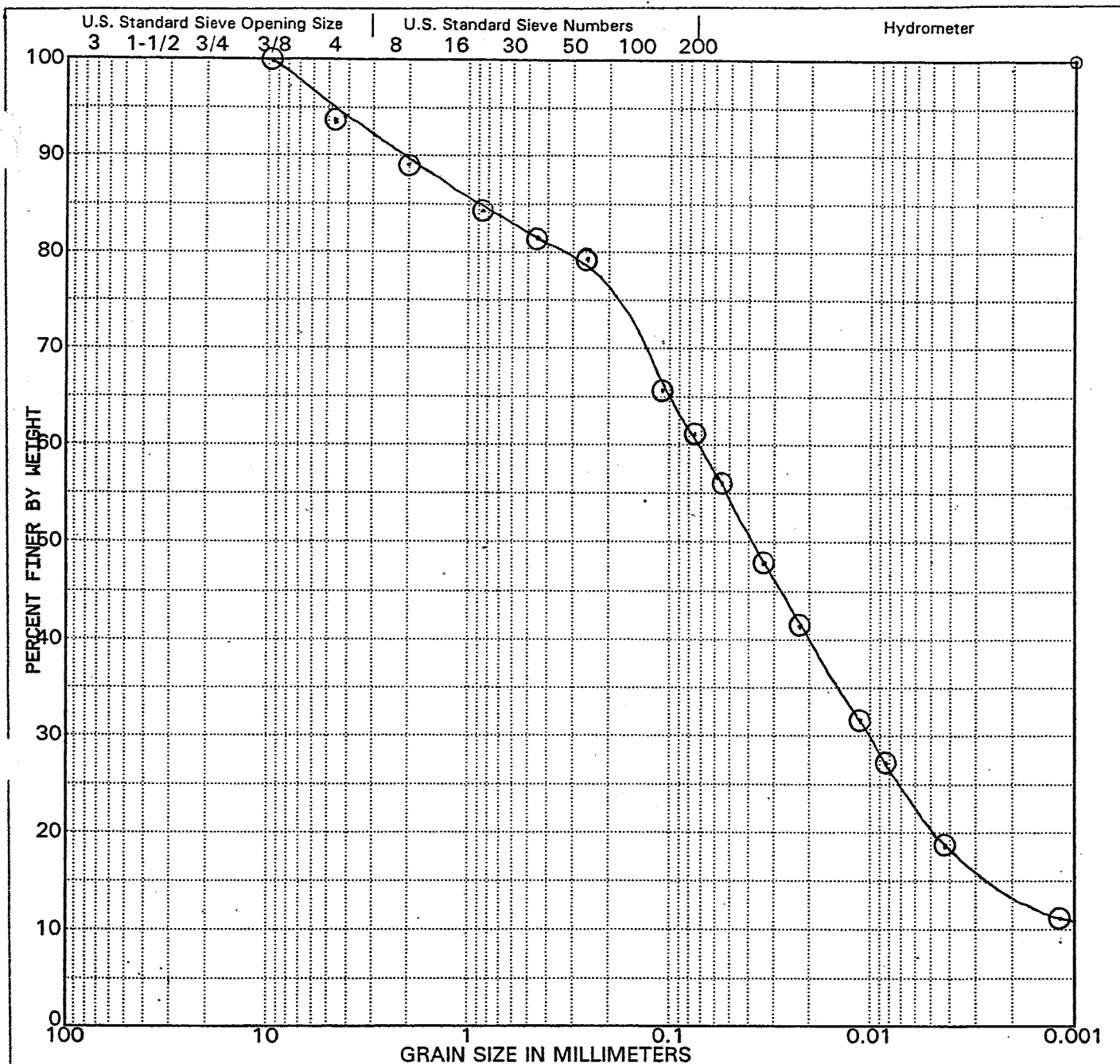
**HYDROMETER & SIEVE ANALYSIS REPORT**

SIEVE SIZE (SCREEN #)	LAB NUMBER: 01-06-0156 SAMPLE ID: MKF0274-03				LAB NUMBER: 01-06-0157 SAMPLE ID: MKF0274-06			
	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	ASTM SYSTEM	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	ASTM SYSTEM
3/4" Sieve		100.00	0.00	Coarse Gravel		100.00	0.00	Coarse Gravel
3/8" Sieve		100.00	0.00	Fine Gravel		98.90	1.10	Fine Gravel
Sieve #4		93.53	6.47			97.64	1.26	
Sieve #10		89.21	4.32	Coarse Sand		95.73	1.91	Coarse Sand
Sieve #20		84.45	4.76	Medium Sand		94.11	1.62	Medium Sand
Sieve #40		82.08	2.42			90.93	3.18	
Sieve #60		79.82	2.21	Fine Sand		87.19	3.74	Fine Sand
Sieve #140		65.17	14.65			68.66	18.53	
Sieve #200		61.16	4.01			65.00	3.66	
SILT (0.074)	✓ 40.85	Grvl Total-> 6.47 Sand Total-> 32.37 Fines Total-> 61.16 Sum Total-> 100.00		SILT (0.074)	✓ 51.44	Grvl Total-> 2.36 Sand Total-> 32.64 Fines Total-> 65.00 Sum Total-> 100.00		Mud  (Silt & Clay)
CLAY (0.005)	20.31			CLAY (0.005)	13.56			

**COMMENTS**

These two samples are broadly similar but differ in the amount of silt present; the first is essentially the same as the two previous sample (i.e., -01 & -02). As a result of the higher silt in the second sample (-06) it classifies as a sandy silt, while the other remains a sandy clay (i.e., the same as the previous two samples). Even so, both still represent fairly similar deposits indicative of low energy flow regimes with occasional moderate energy input. Again, these are slack water deposits of pools and downstream bar locations; or perhaps near channel over-bank deposits.

NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet sieved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule. Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.



Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	0.00	Gravel Total	6.47
3/8"	0.00	Coarse Sand	4.32
#4	6.47	Medium Sand	7.18
#10	4.32	Fine Sand	20.87
#20	4.76	Sand Total	32.37
#40	2.42	Silt	40.85
#60	2.21	Clay	20.31
#140	14.65	Fines Total	61.16
#200	4.01	Grand Total	100.00

#### ASTM CLASSIFICATION

**Brown Sandy Clay  
(CL)**

#### USDA CLASSIFICATION

Loam

SAMPLE ID: MKF0274-03 CLIENT: Sequoia Analytical  
PROJECT ID: MKF0274 - Guadalupe DATE: 7/06/01

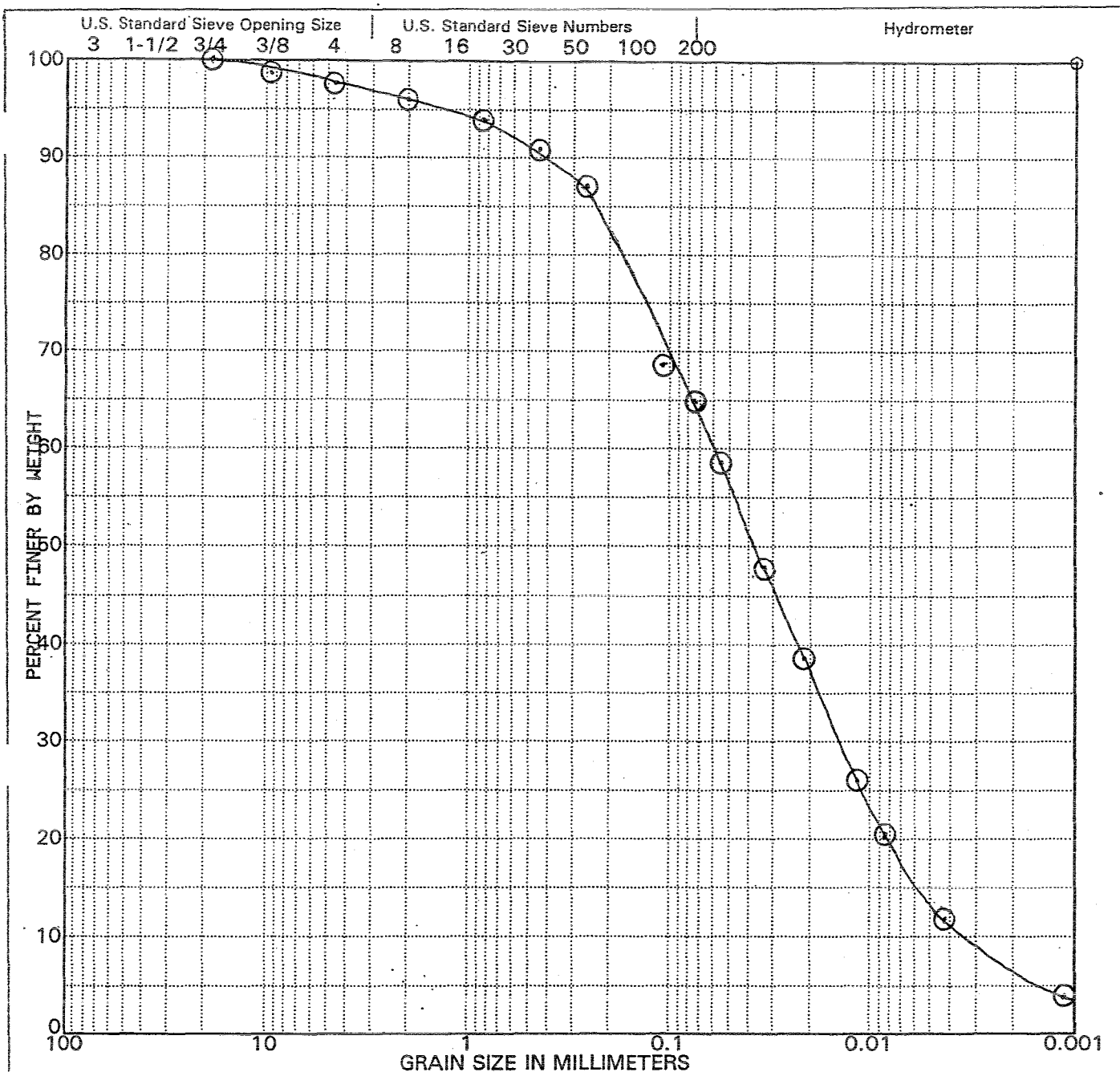
PLATE 3

PARTICLE SIZE ANALYSIS



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Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	0.00	Gravel Total	2.36
3/8"	1.10	Coarse Sand	1.91
#4	1.26	Medium Sand	4.80
#10	1.91	Fine Sand	25.93
#20	1.62	Sand Total	32.64
#40	3.18	Silt	51.44
#60	3.74	Clay	13.56
#140	18.53	Fines Total	65.00
#200	3.66	Grand Total	100.00

#### ASTM CLASSIFICATION

**Brown Sandy Silt  
(MH)**

#### USDA CLASSIFICATION

**Silt Loam**

SAMPLE ID: MKF0274-06 CLIENT: Sequoia Analytical

PROJECT ID: MKF0274 - Guadalupe DATE: 7/06/01

PLATE 4

PARTICLE SIZE ANALYSIS



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COMPANY: Sequoia Analytical, 885 Jarvis Drive, Morgan Hill, CA 95037				ANALYST(S)		SUPERVISOR
ATTN: Jeff Smyly				M. Walker		D. Jacobson
SITE LOCATION: Los Coches; California				R. Conrad		LAB DIRECTOR
				J. Nelson		G. Conrad PhD

*01 Los Coches 01*

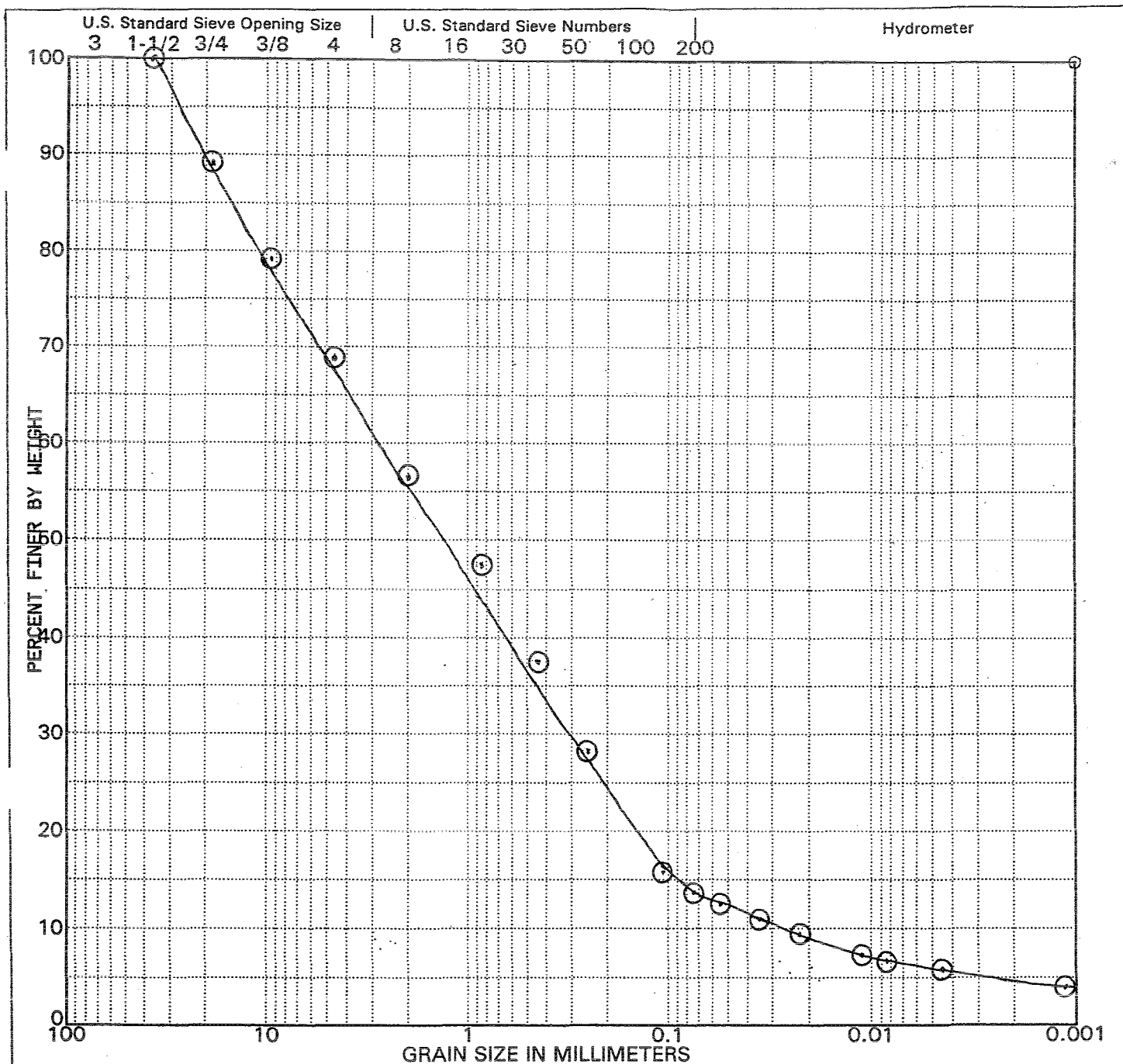
## HYDROMETER & SIEVE ANALYSIS REPORT

	LAB NUMBER: 01-06-0151    SAMPLE ID: MKF0257-01				LAB NUMBER:		SAMPLE ID:	
SIEVE SIZE (SCREEN #)	FINES PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM
3/4" Sieve		89.01	10.99	Coarse Gravel				Coarse Gravel
3/8" Sieve		79.03	9.98	Fine Gravel				Fine Gravel
Sieve #4		69.01	10.02					
Sieve #10		56.24	12.77	Coarse Sand				Coarse Sand
Sieve #20		47.60	8.64	Medium Sand				Medium Sand
Sieve #40		37.77	9.83					
Sieve #60		28.79	8.98	Fine Sand				Fine Sand
Sieve #140		15.54	13.25					
Sieve #200		14.08	1.46					
SILT (0.074)	√ 7.22			SILT (0.074)	√			Mud
CLAY (0.005)	6.87	Grvl Total-> 30.99		CLAY (0.005)	Grvl Total-> 0.00		(Silt & Clay)	
		Sand Total-> 54.93			Sand Total-> 0.00			
		Fines Total-> 14.08			Fines Total-> 0.00			
		Sum Total-> 100.00			Sum Total-> 0.00			

## COMMENTS

This sample classifies as silty clayey sand, but only barely so as there is minimal silt and clay present in the material. In fact, notice that gravel content is about double the mud content, thus gravel is an important modifier also. Therefore, this is mostly a moderate to high energy deposit fairly indicative of moderate to high flow mid- or near mid-channel (small) stream deposits.

NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet sieved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule. Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.



Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	10.99	Gravel Total	30.99
3/8"	9.98	Coarse Sand	12.77
#4	10.02	Medium Sand	18.47
#10	12.77	Fine Sand	23.69
#20	8.64	Sand Total	54.93
#40	9.83	Silt	7.22
#60	8.98	Clay	6.87
#140	13.25	Fines Total	14.08
#200	1.46	Grand Total	100.00

#### ASTM CLASSIFICATION

**Brown Silty Clayey  
Sand w/gravel (SC-SM)**

#### USDA CLASSIFICATION

**Loamy Sand**

SAMPLE ID: MKF0257-01 CLIENT: Sequoia Analytical

PROJECT ID: MKF0257 - Los Coches DATE: 7/06/01

PLATE 1

PARTICLE SIZE ANALYSIS



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COMPANY: Sequoia Analytical, 885 Jarvis Drive, Morgan Hill, CA 95037				ANALYST(S)		SUPERVISOR	
ATTN: Jeff Smyly				S. Banwait		D. Jacobson	
SITE LOCATION: Los Coches; California				R. Conrad		LAB DIRECTOR	
				J. Nelson		G. Conrad PhD	

*01 Los Coches CCD2*

**HYDROMETER & SIEVE ANALYSIS REPORT**

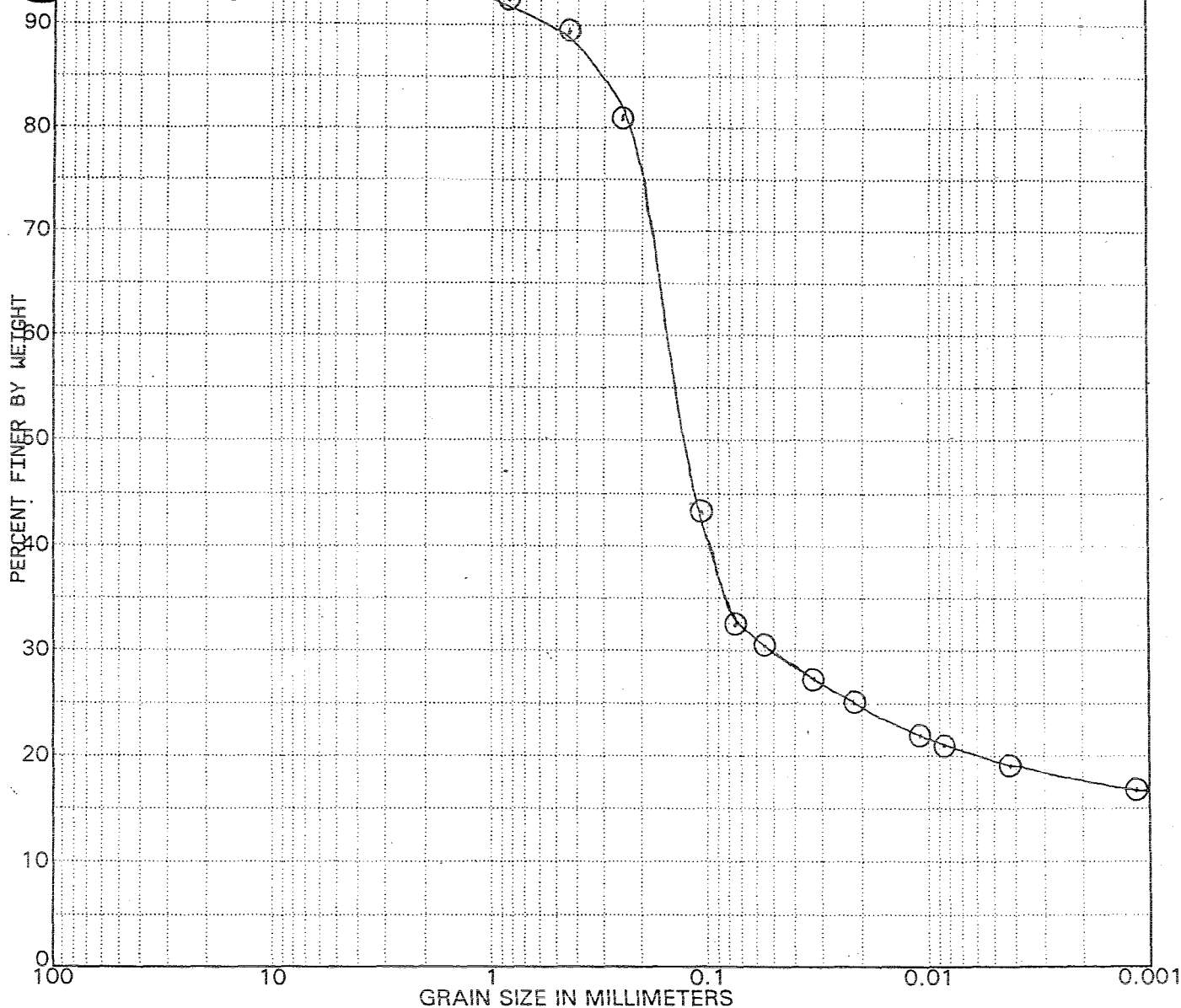
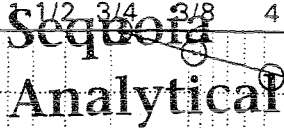
	LAB NUMBER: 01-06-0282    SAMPLE ID: MKF0352-01				LAB NUMBER:    SAMPLE ID:			
SIEVE SIZE (SCREEN #)	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	ASTM SYSTEM	FINES PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	ASTM SYSTEM
3/4" Sieve		100.00	0.00	Coarse Gravel				Coarse Gravel
3/8" Sieve		98.63	1.37	Fine Gravel				Fine Gravel
Sieve #4		96.46	2.17					
Sieve #10		94.38	2.08	Coarse Sand				Coarse Sand
Sieve #20		92.89	1.49	Medium Sand				Medium Sand
Sieve #40		89.31	3.58					
Sieve #60		80.79	8.52	Fine Sand				Fine Sand
Sieve #140		73.81	36.98					
Sieve #200		32.73	11.08					
SILT (0.074)	√ 13.16			MUD (Silty + Clay)	√			Mud  (Silt & Clay)
CLAY (0.005)	19.57	Grvl Total-> 3.54			Grvl Total-> 0.00			
		Sand Total-> 63.73			Sand Total-> 0.00			
		Fines Total-> 32.73			Fines Total-> 0.00			
		Sum Total-> 100.00			Sum Total-> 0.00			

**COMMENTS**

This sample classifies as clayey sand; it has minimal gravel. Notice the vast majority of the sand is fine sand. Thus, this sample seems to represent mostly a (low) moderate energy and flow regime deposit, but much of the time low to very low energy prevails as evidenced by the high mud, especially clay, content. It may represent downstream sand bar and (eddy) pool deposits; or possibly mid-distant overbank deposits.

NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet sieved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule. Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.





Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

<u>SIEVE #</u>	<u>% FRACTION</u>	<u>TEXTURAL CLASSES &amp; PERCENTAGES</u>
3/4"	0.00	Gravel Total -----> 3.54
3/8"	1.37	Coarse Sand ----> 2.08
#4	2.17	Medium Sand ----> 5.07
#10	2.08	Fine Sand -----> 56.58
#20	1.49	Sand Total -----> 63.73
#40	3.58	Silt -----> 13.16
#60	8.52	Clay -----> 19.57
#140	36.98	Fines Total -----> <u>32.73</u>
#200	11.08	Grand Total -----> <u>100.00</u>

### ASTM CLASSIFICATION

**Brown Clayey Sand  
(SP)**

USDA CLASSIFICATION

Sandy Clay Loam

SAMPLE ID: MKF0352-01      CLIENT: Sequoia Analytical

PROJECT ID: MKF0352 - Los Coches DATE: 7/13/01

PLATE 1

## PARTICLE SIZE ANALYSIS



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COMPANY: Sequoia Analytical, 885 Jarvis Drive, Morgan Hill, CA 95037				ANALYST(S)		SUPERVISOR
ATTN: Jeff Smyly				M. Walker		D. Jacobson
SITE LOCATION: Matadero; California				R. Conrad		LAB DIRECTOR
				J. Nelson		G. Conrad PhD

JUL 10 2001

01matadero01

01matadero02

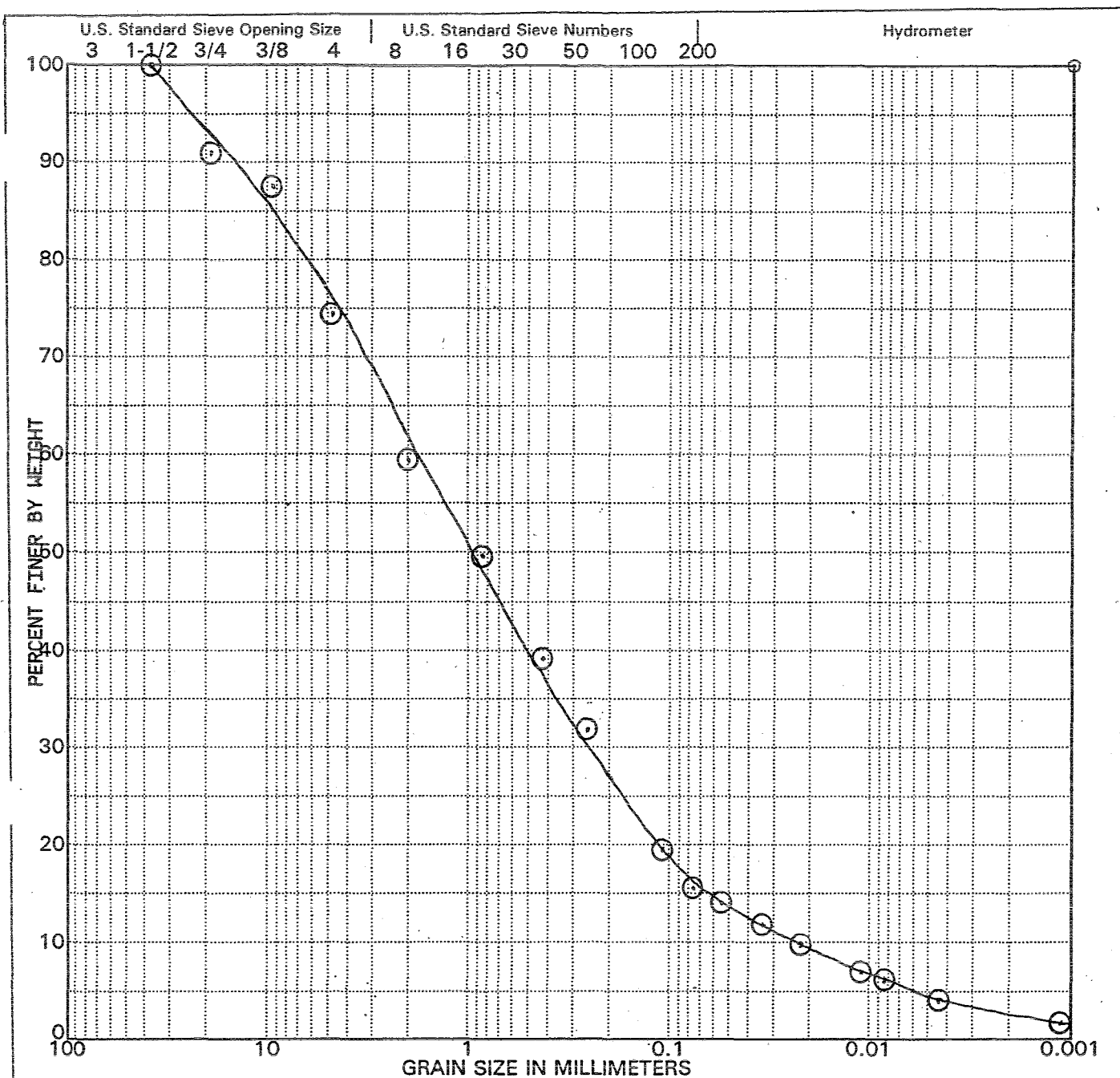
**HYDROMETER & SIEVE ANALYSIS REPORT**

SIEVE SIZE (SCREEN #)	LAB NUMBER: 01-06-0141		SAMPLE ID: MKF0089-01		LAB NUMBER: 01-06-0142		SAMPLE ID: MKF0089-02	
	FINES PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM
3/4" Sieve		91.27	8.73	Coarse Gravel		100.00	0.00	Coarse Gravel
3/8" Sieve		87.76	3.51	Fine Gravel		100.00	0.00	Fine Gravel
Sieve #4		74.55	13.21			99.79	0.21	
Sieve #10		59.67	14.88	Coarse Sand		99.36	0.43	Coarse Sand
Sieve #20		49.72	9.95	Medium Sand		98.60	0.76	Medium Sand
Sieve #40		38.18	11.54			96.96	1.64	
Sieve #60		31.95	6.23	Fine Sand		85.62	11.34	Fine Sand
Sieve #140		19.80	12.15			23.75	61.57	
Sieve #200		15.25	4.55			17.30	6.45	
SILT (0.074)	√ 10.75			SILT (0.074)	√ 12.93			Mud  (Silt & Clay)
CLAY (0.005)	4.50	Grvl Total->	25.45	CLAY (0.005)	4.37	Grvl Total->	0.21	
		Sand Total->	59.30			Sand Total->	82.49	
		Fines Total->	15.25			Fines Total->	17.30	
		Sum Total->	100.00			Sum Total->	100.00	

**COMMENTS**

Although both of these samples classify as silty sand, there is a rather large difference in gravel content which primarily takes away from the sand classes; i.e., note that despite the great difference in gravel percentages, mud content is very similar. While both may be sand bar type deposits, they represent different lateral and/or vertical positions within the depositional sequence. Obviously, the more gravelly materials represent a high energy (and flow) regime punctuated by low flow part of the time, while the other materials represent a moderate flow regime also punctuated by low flow periods.

NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet sieved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule. Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.



Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	8.73	Gravel Total	25.45
3/8"	3.51	Coarse Sand	14.88
#4	13.21	Medium Sand	21.49
#10	14.88	Fine Sand	22.93
#20	9.95	Sand Total	59.30
#40	11.54	Silt	10.75
#60	6.23	Clay	4.50
#140	12.15	Fines Total	15.25
#200	4.55	Grand Total	100.00

#### ASTM CLASSIFICATION

**Black Silty Sand  
w/ gravel (SM)**

#### USDA CLASSIFICATION

**Loamy Sand**

SAMPLE ID: MKF0089-01 CLIENT: Sequoia Analytical

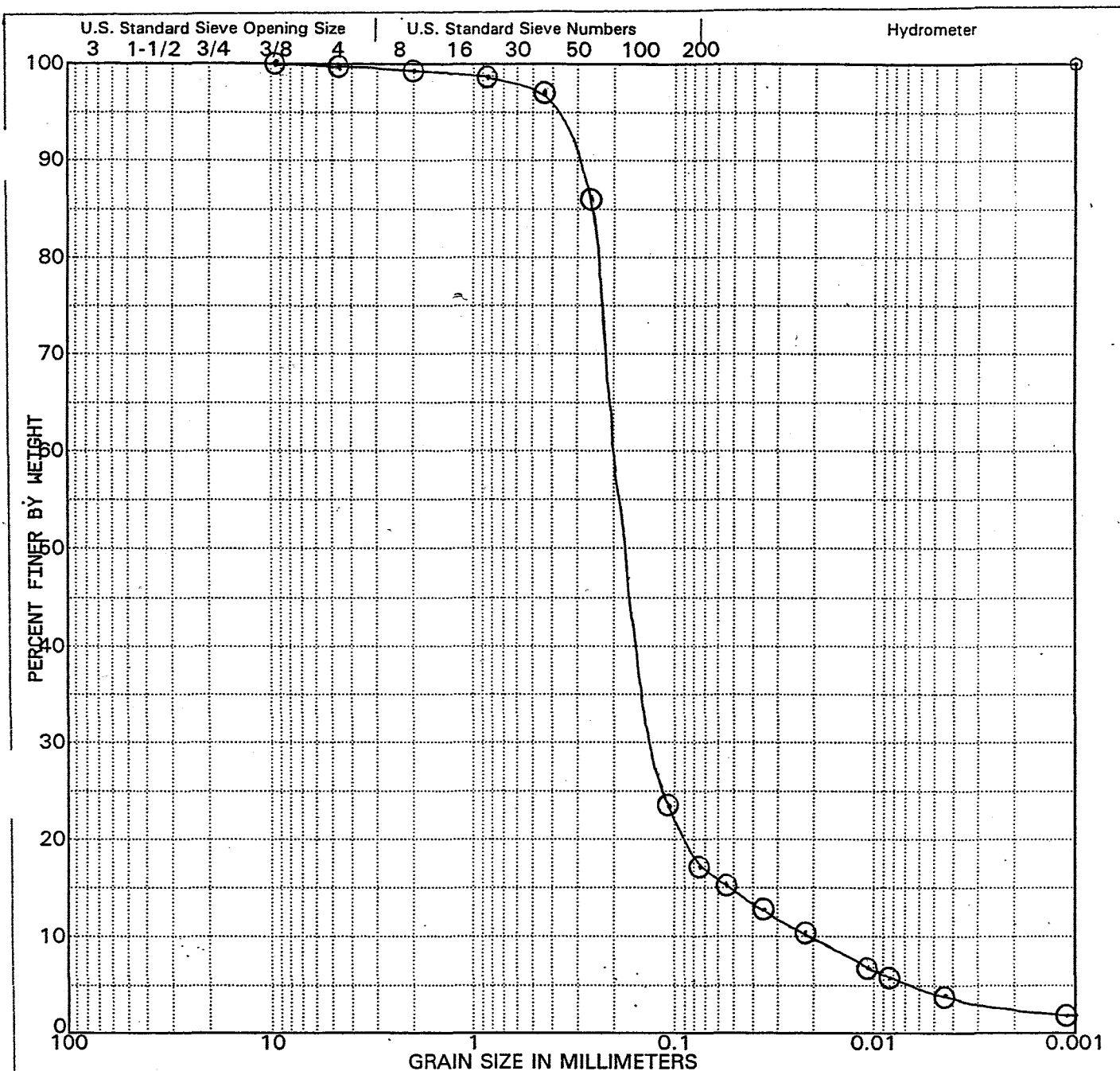
PROJECT ID: *01matadero 01* DATE: 7/03/01

PLATE 1

PARTICLE SIZE ANALYSIS



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Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	0.00	Gravel Total	0.21
3/8"	0.00	Coarse Sand	0.43
#4	0.21	Medium Sand	2.40
#10	0.43	Fine Sand	79.66
#20	0.76	Sand Total	82.49
#40	1.64	Silt	12.93
#60	11.34	Clay	4.37
#140	61.87	Fines Total	17.30
#200	6.45	Grand Total	100.00

#### ASTM CLASSIFICATION

**Black & Brown Silty Sand (SM)**

#### USDA CLASSIFICATION

Loamy Sand

SAMPLE ID: MKF0089-02 CLIENT: Sequoia Analytical

PROJECT ID: MKF0089 - Matadero DATE: 7/03/01

PLATE 2

PARTICLE SIZE ANALYSIS



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# ETS

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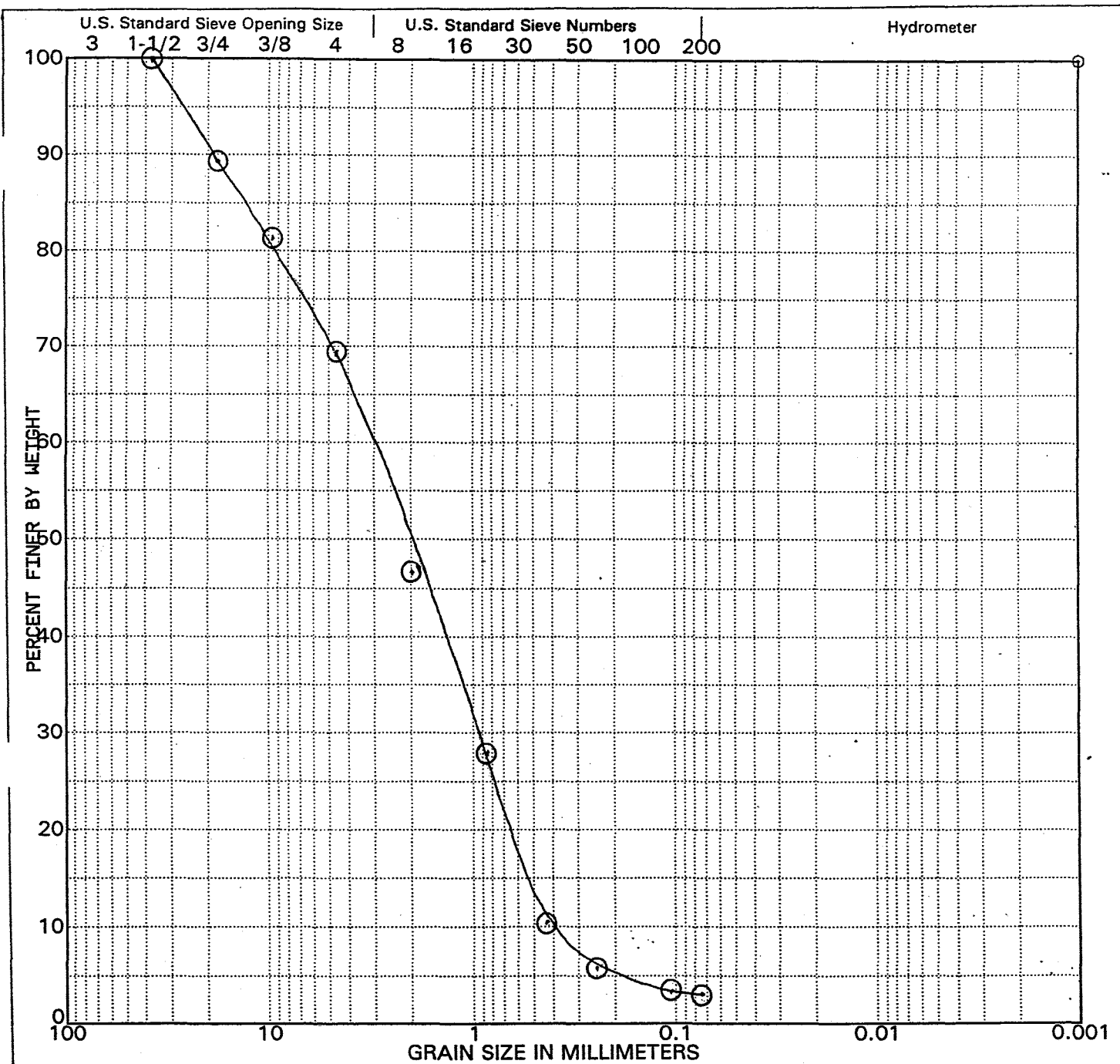
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COMPANY: Sequoia Analytical, 885 Jarvis Drive, Morgan Hill, CA 95037					ANALYST(S)		SUPERVISOR	
ATTN: Jeff Smyly					S. Banwait		D. Jacobson	
SITE LOCATION: Randol; California					R. Conrad		LAB DIRECTOR	
DATE COLLECTED: 6/8/01					DATE RECEIVED: 6/13/01		DATE of REPORT: 7/6/01	
J. Nelson					J. Nelson		G. Conrad PhD	
01 Randol 01 01 Randol 01 01								
HYDROMETER & SIEVE ANALYSIS REPORT								
LAB NUMBER: 01-06-0152		SAMPLE ID: MKF0273-01			LAB NUMBER: 01-06-0153		SAMPLE ID: MKF0273-02	
SIEVE SIZE (SCREEN #)	FINES PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	ASTM SYSTEM	FINES PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	ASTM SYSTEM
3/4" Sieve		89.51	10.49	Coarse Gravel		94.49	5.51	Coarse Gravel
3/8" Sieve		81.13	8.38	Fine Gravel		88.75	5.74	Fine Gravel
Sieve #4		69.58	11.55			79.94	8.81	
Sieve #10		46.85	22.73	Coarse Sand		62.23	17.71	Coarse Sand
Sieve #20		23.07	23.78	Medium Sand		28.10	34.13	Medium Sand
Sieve #40		10.19	12.88	Fine Sand		12.68	15.42	Fine Sand
Sieve #60		5.60	4.59			6.52	6.16	
Sieve #140		3.30	2.30			3.18	3.33	
Sieve #200		3.01	0.29			2.86	0.33	
MUD (Silty + Clay)	3.01	Grvl Total-> 30.42 Sand Total-> 66.57 Fines Total-> 3.01 Sum Total-> 100.00		MUD (Silty + Clay)	2.86	Grvl Total-> 20.06 Sand Total-> 77.08 Fines Total-> 2.86 Sum Total-> 100.00		Mud (Silt & Clay)
***** COMMENTS *****								
<p>Both of these samples not only classify as sand with gravel, but are very similar overall with only relatively small differences in totals for the various textural classes. The differences are in gravel and sand classes with the two flip-flopping these percentages. Even so, it appears both samples represent either sand bar or channel lag deposits with little difference in location. Thus, it seems flow regime is very similar for the two probably representing something in the moderate to high energy range for the stream.</p>								
<p>NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet sieved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISS, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule. Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.</p>								



Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	10.49	Gravel Total	30.42
3/8"	8.38	Coarse Sand	22.73
#4	11.55	Medium Sand	36.66
#10	22.73	Fine Sand	7.18
#20	23.78	Sand Total	66.57
#40	12.88	Silt	---
#60	4.59	Clay	---
#140	2.30	Fines Total	3.01
#200	0.29	Grand Total	100.00

#### ASTM CLASSIFICATION

**Brown Sand  
w/ gravel (SP)**

#### USDA CLASSIFICATION

**Sand**

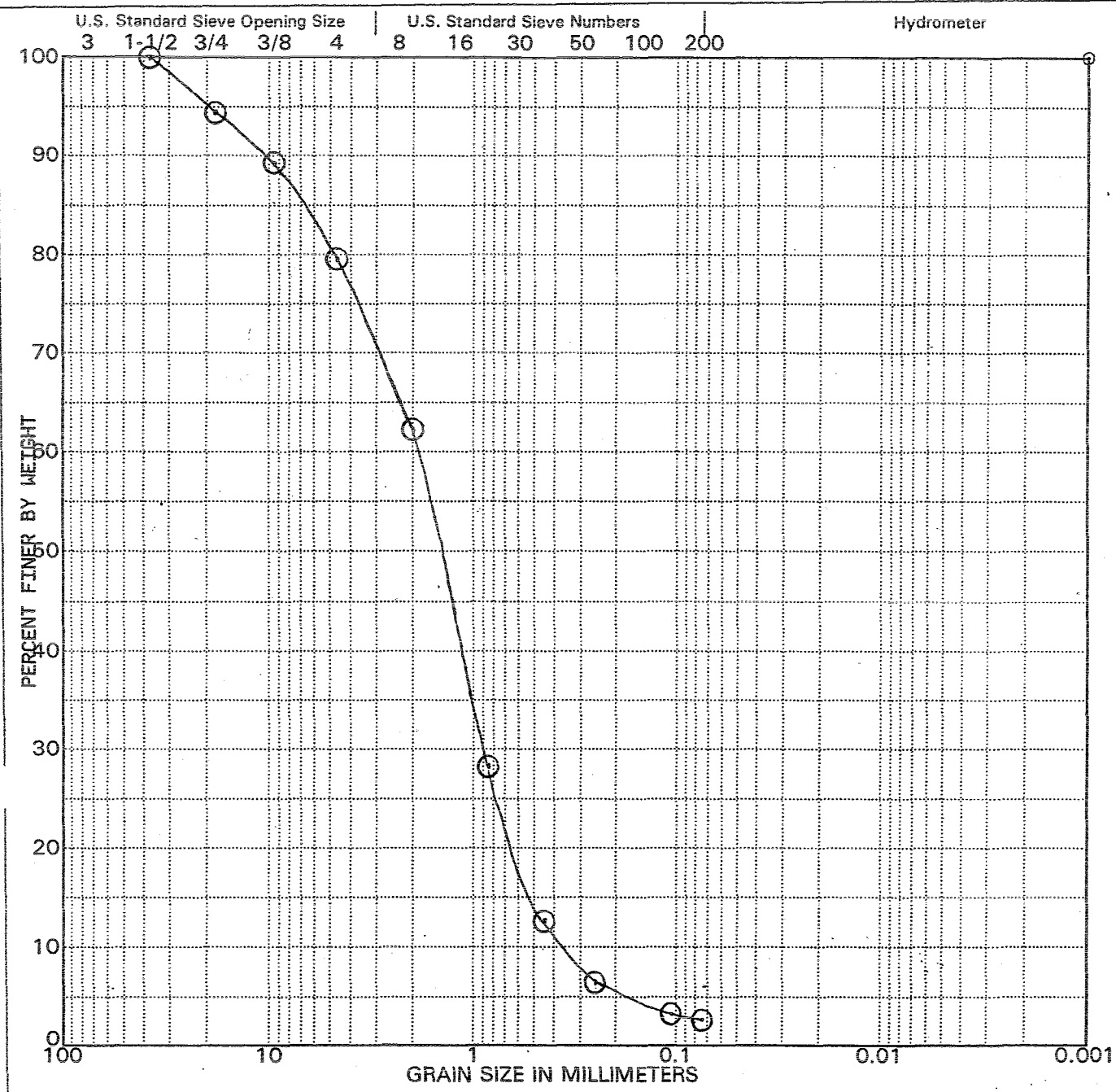
SAMPLE ID: MKF0273-01 CLIENT: Sequoia Analytical  
PROJECT ID: MKF0273 - Randol DATE: 7/06/01

PLATE 1

**PARTICLE SIZE ANALYSIS**



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Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	5.51	Gravel Total	20.06
3/8"	5.74	Coarse Sand	17.71
#4	8.81	Medium Sand	49.55
#10	17.71	Fine Sand	9.82
#20	34.13	Sand Total	77.08
#40	15.42	Silt	---
#60	6.16	Clay	---
#140	3.33	Fines Total	2.86
#200	0.33	Grand Total	100.00

**ASTM CLASSIFICATION**

**Brown Sand  
w/ gravel (SP)**

**USDA CLASSIFICATION**

**Sand**

SAMPLE ID: MKF0273-02 CLIENT: Sequoia Analytical  
PROJECT ID: MKF0273 - Randol DATE: 7/06/01

**PLATE 2**

**PARTICLE SIZE ANALYSIS**



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# ETS

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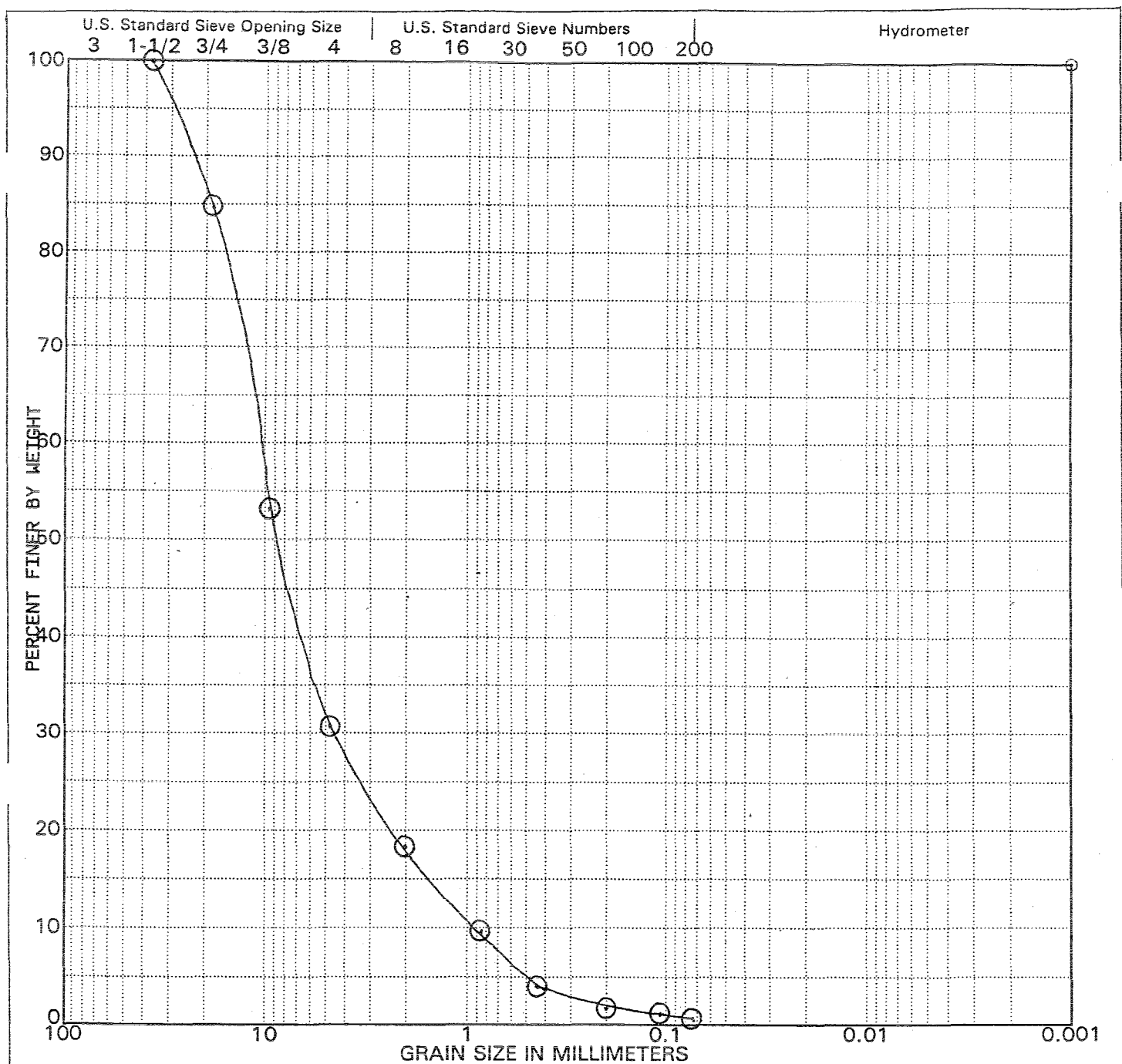
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COMPANY: Sequoia Analytical, 885 Jarvis Drive, Morgan Hill, CA 95037					ANALYST(S)		SUPERVISOR		
ATTN: Jeff Smyly					DATE	DATE	DATE of	S. Banwait	D. Jacobson
SITE LOCATION: Ross; California					COLLECTED	RECEIVED	REPORT	R. Conrad	LAB DIRECTOR
					6/13/01	6/15/01	7/11/01	J. Nelson	G. Conrad PhD
01ROSS01					01ROSS02				
HYDROMETER & SIEVE ANALYSIS REPORT									
LAB NUMBER: 01-06-0246		SAMPLE ID: MKF0297-01			LAB NUMBER: 01-06-0247		SAMPLE ID: MKF0297-02		
SIEVE SIZE (SCREEN #)	FINES PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM	FINES PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM	
3/4" Sieve		84.95	15.05	Coarse Gravel		94.51	5.49	Coarse Gravel	
3/8" Sieve		53.21	31.74	Fine Gravel		70.39	24.12	Fine Gravel	
Sieve #4		30.33	22.88			45.57	24.82		
Sieve #10		18.09	12.24	Coarse Sand		21.56	24.01	Coarse Sand	
Sieve #20		9.94	8.15	Medium Sand		8.56	13.00	Medium Sand	
Sieve #40		4.32	5.62			2.85	5.71		
Sieve #60		1.98	2.34	Fine Sand		0.92	1.93	Fine Sand	
Sieve #140		1.06	0.92			0.21	0.71		
Sieve #200		0.62	0.44			0.13	0.08		
MUD (Silt + Clay)	0.62	Grvl Total-> 69.67 Sand Total-> 29.71 Fines Total-> 0.62 Sum Total-> 100.00		MUD (Silt + Clay)	0.13	Grvl Total-> 54.43 Sand Total-> 45.44 Fines Total-> 0.13 Sum Total-> 100.00		Mud (Silt & Clay)	
***** COMMENTS *****									
<p>Both samples classify as gravel with sand; note that the mud content is nil. These materials may represent channel lag deposits of similar high flow regime and energy level (i.e., at the low end of the high range). The nil content of mud indicates low energy levels don't occur, but the sand content indicates moderate energy levels part of the time. Indeed, the sand acts as a scouring agent much of the time to remove fines. Energy levels change quickly as evidenced by the lack of fines.</p>									
<p>NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet sieved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule. Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.</p>									



Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	15.05	Gravel Total	69.67
3/8"	31.74	Coarse Sand	12.24
#4	22.88	Medium Sand	13.77
#10	12.24	Fine Sand	3.70
#20	8.15	Sand Total	29.71
#40	5.62	Silt	---
#60	2.34	Clay	---
#140	0.92	Fines Total	0.62
#200	0.44	Grand Total	100.00

#### ASTM CLASSIFICATION

Gray Brown Gravel  
w/ sand (GP)

#### USDA CLASSIFICATION

Sand

SAMPLE ID: MKF0297-01 CLIENT: Sequoia Analytical

PROJECT ID: MKF0297 - Ross

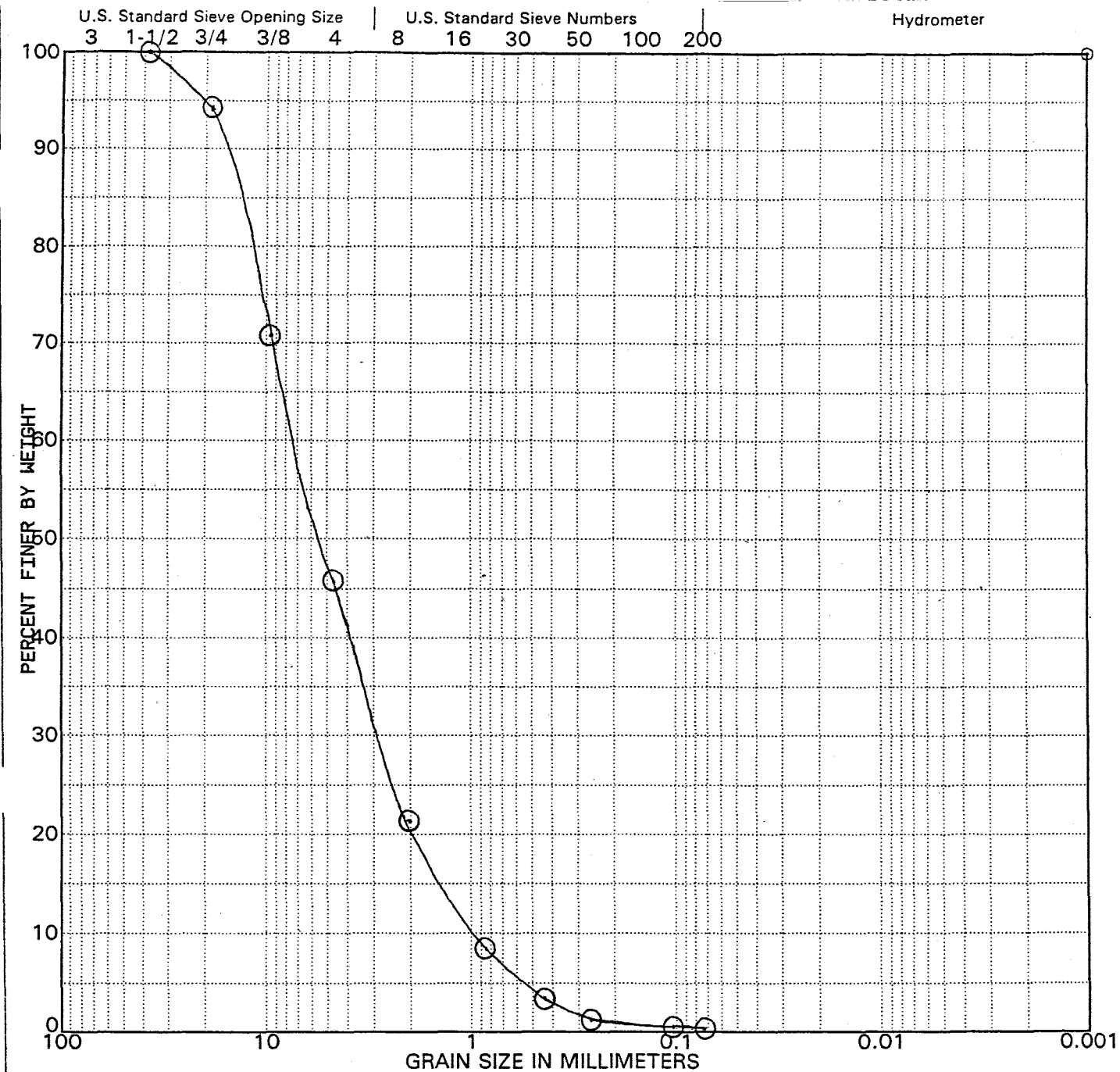
DATE: 7/11/01

PLATE 1

PARTICLE SIZE ANALYSIS



ETS



Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	5.49	Gravel Total	54.43
3/8"	24.12	Coarse Sand	24.01
#4	24.82	Medium Sand	18.71
#10	24.01	Fine Sand	2.72
#20	13.00	Sand Total	45.44
#40	5.71	Silt	---
#60	1.93	Clay	---
#140	0.71	Fines Total	0.13
#200	0.08	Grand Total	100.00

#### ASTM CLASSIFICATION

**Brown Gravel  
w/ sand (GP)**

#### USDA CLASSIFICATION

**Sand**

SAMPLE ID: MKF0297-02 CLIENT: Sequoia Analytical  
PROJECT ID: MKF0297 - Ross DATE: 7/11/01

PLATE 2

PARTICLE SIZE ANALYSIS



**ETS**



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COMPANY: Sequoia Analytical, 885 Jarvis Drive, Morgan Hill, CA 95037				ANALYST(S) M. Walker R. Conrad J. Nelson	SUPERVISOR D. Jacobson
ATTN: Jeff Smyly					LAB DIRECTOR G.Conrad PhD
SITE LOCATION: Rucker; California					
DATE COLLECTED		DATE RECEIVED		DATE of REPORT	
6/8/01		6/15/01		7/11/01	

01 Rucker 01

01 Rucker 01

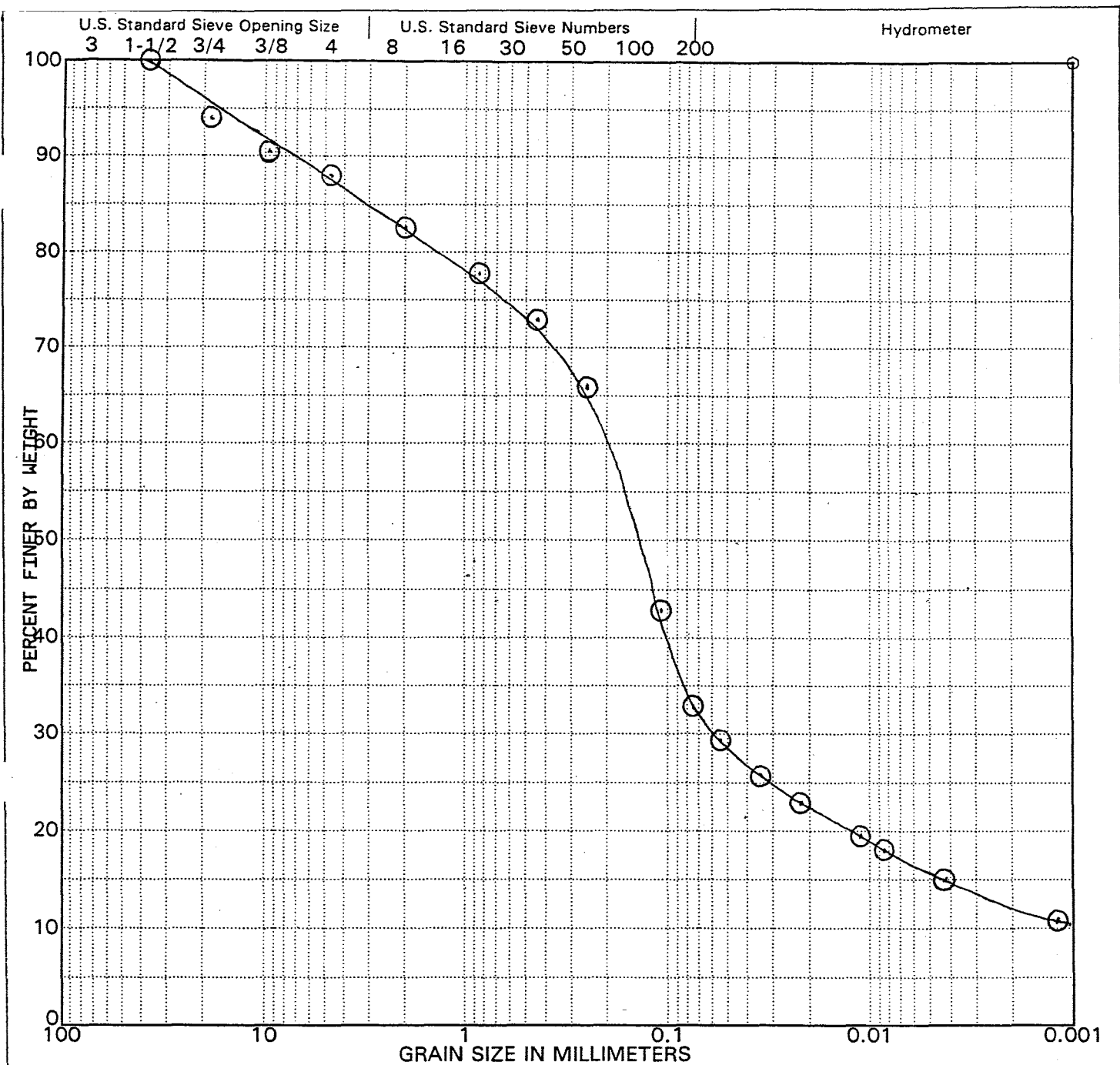
## HYDROMETER & SIEVE ANALYSIS REPORT

		LAB NUMBER: 01-06-0240    SAMPLE ID: MKF0271-01					LAB NUMBER: 01-06-0241    SAMPLE ID: MKF0271-02		
SIEVE SIZE (SCREEN #)	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM	
3/4" Sieve		94.41	5.59	Coarse Gravel		100.00	0.00	Coarse Gravel	
3/8" Sieve		90.49	3.92	Fine Gravel		98.81	1.19	Fine Gravel	
Sieve #4		57.91	2.58			94.28	4.53		
Sieve #10		82.64	5.27	Coarse Sand		88.26	6.02	Coarse Sand	
Sieve #20		77.84	4.80	Medium Sand		51.51	6.75	Medium Sand	
Sieve #40		73.01	4.83			76.86	4.65		
Sieve #60		65.58	7.43	Fine Sand		67.30	9.56	Fine Sand	
Sieve #140		42.90	22.68			50.03	17.27		
Sieve #200		33.20	9.70			43.13	6.90		
SILT (0.074)	✓ 17.66	Grvl Total-> 12.09 Sand Total-> 54.71 Fines Total-> 33.20 Sum Total-> 100.00		SILT (0.074)	✓ 21.96	Grvl Total-> 5.72 Sand Total-> 51.15 Fines Total-> 43.13 Sum Total-> 100.00		Mud	
CLAY (0.005)	15.54			CLAY (0.005)	21.17			(Silt & Clay)	

### COMMENTS

Both of these samples classify as clayey sand; both have some fine gravel but total is <15%. Both samples have very similar overall distributions. As a result, it seems they are similar enough that they probably represent very similar deposits. One sample does have slightly heavier (larger) gravel and thus may represent a slightly higher energy of deposition. But both should represent similar positions within a stream course, perhaps at the downstream part of a sand bar, or near overbank where energy levels run from nil to moderate.

NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet sieved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule. Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.



Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	5.59	Gravel Total	12.09
3/8"	3.92	Coarse Sand	5.27
#4	2.58	Medium Sand	9.63
#10	5.27	Fine Sand	39.81
#20	4.80	Sand Total	54.71
#40	4.83	Silt	17.66
#60	7.43	Clay	15.54
#140	22.68	Fines Total	33.20
#200	9.70	Grand Total	100.00

**ASTM CLASSIFICATION**  
**Orange Brown Clayey Sand (SC)**

**USDA CLASSIFICATION**  
**Sand Loam**

SAMPLE ID: MKF0271-01 CLIENT: Sequoia Analytical  
 PROJECT ID: MKF0271 - RUCKER DATE: 7/11/01

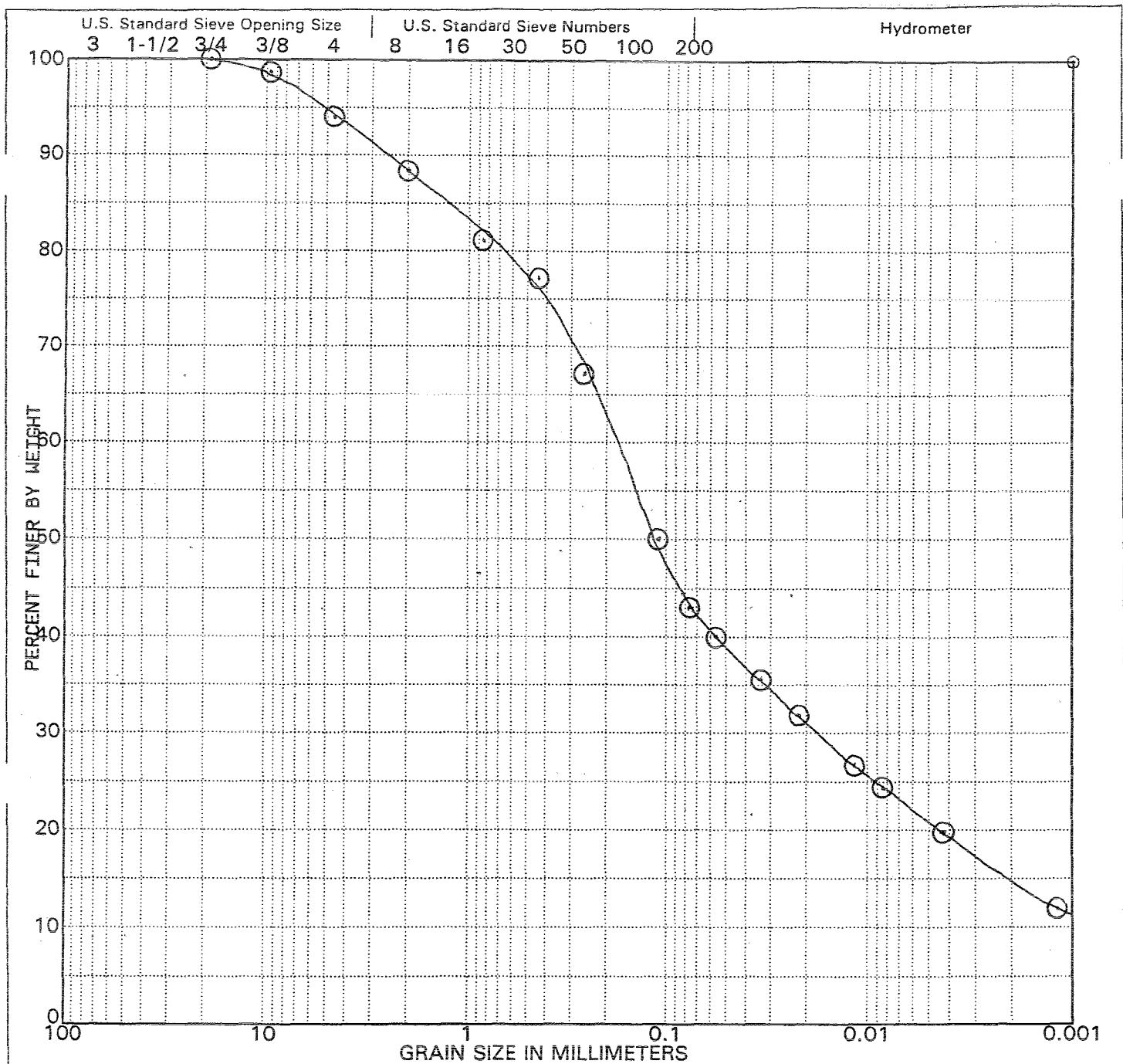
PLATE 1

PARTICLE SIZE ANALYSIS



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Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	0.00	Gravel Total	5.72
3/8"	1.19	Coarse Sand	6.02
#4	4.53	Medium Sand	11.40
#10	6.02	Fine Sand	33.73
#20	6.75	Sand Total	51.15
#40	4.65	Silt	21.96
#60	9.56	Clay	21.17
#140	17.27	Fines Total	43.13
#200	6.90	Grand Total	100.00

#### ASTM CLASSIFICATION

**Orange Brown Clayey Sand (SC)**

#### USDA CLASSIFICATION

**Sandy Clay Loam**

SAMPLE ID: MKF0271-02 CLIENT: Sequoia Analytical

PROJECT ID: MKF0271 - RUCKER

DATE: 7/11/01

PLATE 2

PARTICLE SIZE ANALYSIS



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COMPANY: Sequoia Analytical, 885 Jarvis Drive, Morgan Hill, CA 95037					ANALYST(S)		SUPERVISOR		
ATTN: Jeff Smyly					DATE COLLECTED	DATE RECEIVED	DATE of REPORT	S. Banwait	D. Jacobson
SITE LOCATION: Sierra; California					6/13/01	6/16/01	7/11/01	R. Conrad	LAB DIRECTOR
								J. Nelson	G.Conrad PhD
01Sierra0101Sierra01									
HYDROMETER & SIEVE ANALYSIS REPORT									
	LAB NUMBER: 01-06-0248 SAMPLE ID: MKF0298-01				LAB NUMBER: 01-06-0249 SAMPLE ID: MKF0298-02				
SIEVE SIZE (SCREEN #)	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	ASTM SYSTEM	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	ASTM SYSTEM	
3/4" Sieve		90.83	9.17	Coarse Gravel		67.32	32.68	Coarse Gravel	
3/8" Sieve		74.91	15.92	Fine Gravel		54.35	12.97	Fine Gravel	
Sieve #4		61.17	13.74			41.27	13.08		
Sieve #10		40.52	20.65	Coarse Sand		31.44	9.83	Coarse Sand	
Sieve #20		29.30	11.22	Medium Sand		27.27	4.17	Medium Sand	
Sieve #40		20.64	8.66			23.78	3.49		
Sieve #60		14.61	6.03	Fine Sand		20.05	3.73	Fine Sand	
Sieve #140		11.81	2.80			16.60	3.45		
Sieve #200		10.47	1.34			15.58	1.02		
SILT (0.074)	√ 7.22			SILT (0.074)	√ 9.96			Mud	
CLAY (0.005)	3.25	Grvl Total-> 38.83		CLAY (0.005)	5.62	Grvl Total-> 58.73		(Silt & Clay)	
		Sand Total-> 50.70				Sand Total-> 25.69			
		Fines Total-> 10.47				Fines Total-> 15.58			
		Sum Total-> 100.00				Sum Total-> 100.00			

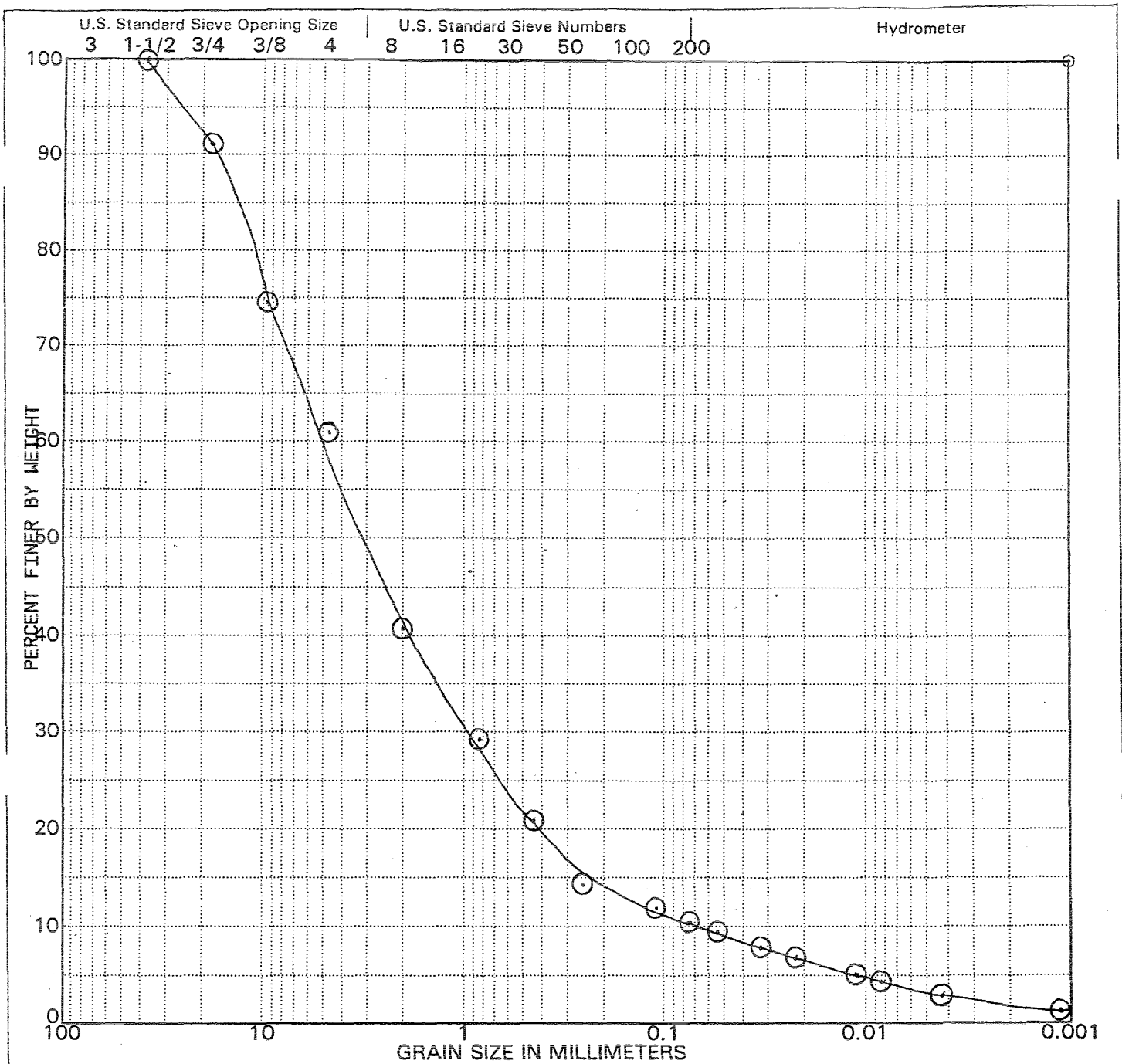
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COMMENTS

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These two samples differ in their major textural class percentages, thus they differ in their classification: one is a sand (with silt and gravel), while the other is a (silty) gravel (with sand). Thus, one represents a mostly moderate energy of deposition (sand), while high energy dominates in the other case (gravel). Both could be found in relatively close proximity to one another, but the sand is more indicative of sand bar while the gravel is more like a channel lag deposit. However, as an example upstream bar and proximal channel could be represented by these two samples.

NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet sieved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule. Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.



Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	9.17	Gravel Total	38.83
3/8"	15.92	Coarse Sand	20.65
#4	13.74	Medium Sand	19.88
#10	20.65	Fine Sand	10.17
#20	11.22	Sand Total	50.70
#40	8.66	Silt	7.22
#60	6.03	Clay	3.25
#140	2.80	Fines Total	10.47
#200	1.34	Grand Total	100.00

#### ASTM CLASSIFICATION

**Brown Sand w/ silt  
& gravel (SP-SM)**

#### USDA CLASSIFICATION

**Loamy Sand**

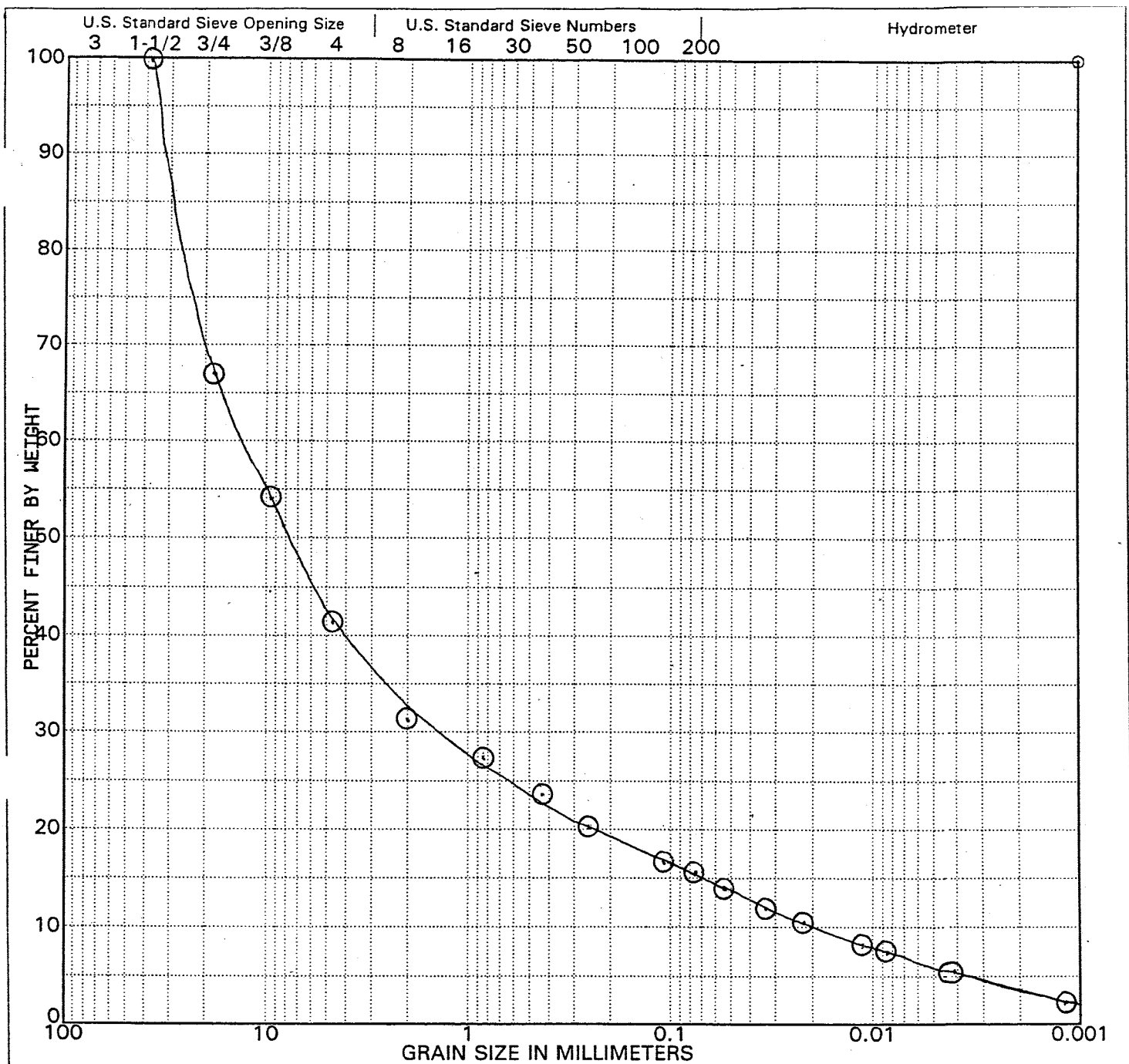
SAMPLE ID: MKF0298-01 CLIENT: Sequoia Analytical  
 PROJECT ID: MKF0298 - Sierra DATE: 7/11/01

PLATE 1

PARTICLE SIZE ANALYSIS



**E  
T  
S**



Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	32.68	Gravel Total	58.73
3/8"	12.97	Coarse Sand	9.83
#4	13.08	Medium Sand	7.66
#10	9.83	Fine Sand	8.20
#20	4.17	Sand Total	25.69
#40	3.49	Silt	9.96
#60	3.73	Clay	5.62
#140	3.45	Fines Total	15.58
#200	1.02	Grand Total	100.00

#### ASTM CLASSIFICATION

**Brown Silty Gravel  
w/ sand (GM)**

#### USDA CLASSIFICATION

**Sandy Loam**

SAMPLE ID: MKF0298-02 CLIENT: Sequoia Analytical  
 PROJECT ID: MKF0298 - Sierra DATE: 7/11/01

PLATE 2

PARTICLE SIZE ANALYSIS



**E  
T  
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## **APPENDIX C**

2001 Sediment Removal Project -  
Analytical Data for Sediment Samples  
Continuous Core Samples

		AdobeCC01 (continuous)		BerryMilCC01 (continuous)		BerryMilCC02 (continuous)		BerryCropCC01 (continuous)		BerryPiedCC01 (continuous)		CalabazasCC01 (continuous)		CalabazasCC02 (continuous)		CalabazasCC03 (continuous)		CalabazasCC04 (continuous)		CalabazasCC05 (continuous)	
Analyte	units	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
Total Metals, TTLC																					
Mercury	mg/Kg	0.0370	0.0035	0.0550	0.0038	0.0270	0.0038	0.0940	0.0037	0.0720	0.0034	0.0280	0.0043	0.1700	0.0034	0.073	0.0037	0.0230	0.0047	0.0640	0.0034
Antimony	mg/Kg	ND	1.800	ND	1.800	ND	1.800	ND	1.800	ND	1.700	ND	1.800	ND	1.900	2.3	1.800	ND	2.100	ND	1.800
Arsenic	mg/Kg	3.800	3.600	7.000	3.600	5.900	3.600	13.000	3.600	7.100	3.400	ND	3.600	5.000	3.700	8.600	3.600	ND	4.200	4.100	3.700
Barium	mg/Kg	88.000	4.500	56.000	4.500	130.000	4.500	110.000	4.500	79.000	4.200	52.000	4.500	110.000	4.600	170.000	4.500	60.000	5.300	68.000	4.600
Beryllium	mg/Kg	ND	0.450	ND	0.450	ND	0.450	ND	0.450	ND	0.420	ND	0.450	ND	0.460	ND	0.450	ND	0.530	ND	0.460
Cadmium	mg/Kg	ND	0.550	ND	0.550	ND	0.550	ND	0.550	ND	0.510	ND	0.550	ND	0.560	ND	0.550	ND	0.630	ND	0.550
Chromium	mg/Kg	79.000	5.500	25.000	5.500	31.000	5.500	32.000	5.500	30.000	5.100	37.000	5.500	85.000	5.600	57.000	5.500	39.000	6.300	35.000	5.500
Cobalt	mg/Kg	15.000	0.910	7.500	0.910	7.800	0.910	8.500	0.910	7.800	0.850	11.000	0.910	16.000	0.930	16.000	0.910	9.900	1.100	9.600	0.920
Copper	mg/Kg	32.000	1.800	14.000	1.800	16.000	1.800	24.000	1.800	61.000	1.700	13.000	1.800	25.000	1.900	33.000	1.800	14.000	2.100	14.000	1.800
Lead	mg/Kg	17.000	4.500	5.300	4.500	4.900	4.500	11.000	4.500	4.400	4.200	ND	4.500	17.000	4.600	10.000	4.500	7.500	5.300	12.000	4.600
Molybdenum	mg/Kg	ND	0.910	ND	0.910	ND	0.910	ND	0.910	ND	0.850	ND	0.910	ND	0.930	ND	0.910	ND	1.100	ND	0.920
Nickel	mg/Kg	57.000	0.910	44.000	0.910	44.000	0.910	51.000	0.910	38.000	0.850	37.000	0.910	100.000	0.930	67.000	0.910	42.000	1.100	37.000	0.920
Selenium	mg/Kg	ND	4.500	ND	4.500	ND	4.500	ND	4.500	ND	4.200	ND	4.500	ND	4.600	ND	4.500	ND	5.300	ND	4.600
Silver	mg/Kg	ND	1.400	ND	1.400	ND	1.400	ND	1.400	ND	1.300	ND	1.400	ND	1.400	ND	1.400	ND	1.600	ND	1.400
Thallium	mg/Kg	ND	1.600	ND	1.600	2.600	1.600	ND	1.600	5.400	1.500	ND	1.600	ND	1.700	ND	1.600	ND	1.900	ND	1.700
Vanadium	mg/Kg	65.000	1.400	29.000	1.400	31.000	1.400	40.000	1.400	34.000	1.300	37.000	1.400	48.000	1.400	60.000	1.400	39.000	1.600	35.000	1.400
Zinc	mg/Kg	88.000	6.400	41.000	6.400	37.000	6.400	59.000	6.400	40.000	5.900	54.000	6.400	79.000	6.500	61.000	6.400	48.000	7.400	48.000	6.400
Methyl Mercury, (EPA 1630 Modified)																					
Methyl Mercury	ng/g	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Soluable Metals, STLC																					
Mercury	ug/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Antimony	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Arsenic	ug/L	290.0	200.0	ND	200.0	2000.0	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Barium	ug/L	7000.0	200.0	16000.0	200.0	12000.0	200.0	6900.0	200.0	20000.0	200.0	6000.0	200.0	9900.0	200.0	12000.0	200.0	6500.0	200.0	7300.0	200.0
Beryllium	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Cadmium	ug/L	ND	20.0	ND	20.0	21.0	20.0	ND	20.0	20.0	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Chromium	ug/L	920.0	20.0	150.0	20.0	140.0	20.0	270.0	20.0	230.0	20.0	570.0	20.0	770.0	20.0	130.0	20.0	640.0	20.0	670.0	20.0
Cobalt	ug/L	290.0	80.0	190.0	80.0	230.0	80.0	190.0	80.0	210.0	80.0	360.0	80.0	360.0	80.0	410.0	80.0	220.0	80.0	430.0	80.0
Copper	ug/L	ND	20.0	140.0	20.0	100.0	20.0	550.0	20.0	380.0	20.0	ND	20.0	23.0	20.0	420.0	20.0	ND	20.0	ND	20.0
Lead	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	200.0	200.0	400.0	200.0	ND	200.0	220.0	200.0	330.0	200.0
Molybdenum	ug/L	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0
Nickel	ug/L	670.0	80.0	770.0	80.0	490.0	80.0	1900.0	80.0	1300.0	80.0	670.0	80.0	840.0	80.0	530.0	80.0	550.0	80.0	860.0	80.0
Selenium	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Silver	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Thallium	ug/L	680.0	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	580.0	200.0	860.0	200.0	ND	200.0	390.0	200.0	630.0	200.0
Vanadium	ug/L	870.0	80.0	170.0	80.0	350.0	80.0	140.0	80.0	150.0	80.0	480.0	80.0	1000.0	80.0	460.0	80.0	680.0	80.0	750.0	80.0
Zinc	ug/L	4600.0	20.0	1200.0	20.0	800.0	20.0	1100.0	20.0	990.0	20.0	2600.0	20.0	5800.0	20.0	1100.0	20.0	2200.0	20.0	2900.0	20.0
Pesticides (EPA 8081)																					
Aldrin	ug/Kg	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
alpha-BHC	ug/Kg	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
beta-BHC	ug/Kg	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
delta-BHC	ug/Kg	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
gamma-BHC	ug/Kg	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlordane (tech)	ug/Kg	ND	200.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
4,4-DDD	ug/Kg	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
4,4-DDE	ug/Kg	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
4,4-DDT	ug/Kg	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Dieldrin	ug/Kg	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan I	ug/Kg	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan II	ug/Kg	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan sulfate	ug/Kg	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Endrin	ug/Kg	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endrin aldehyde	ug/Kg	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Endrin keytone	ug/Kg	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Heptachlor	ug/Kg	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Heptachlor epoxide	ug/Kg	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methoxychlor	ug/Kg	ND	200.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Toxaphene	ug/Kg	ND	800.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0

\*Lab missed hold time - Sample not analyzed  
File: ks\2001 Sample Results SC\ContCore

**2001 Sediment Removal Project -  
Analytical Data for Sediment Samples  
Continuous Core Samples**

		CalabazasCC06 (continuous)		CalabazasCC07 (continuous)		CalabazasCC08 (continuous)		CaleraMilCC01 (continuous)		CaleraEscCC01 (continuous)		CanoasCC01 (continuous)		CoyoteCC01 (continuous)		FlintCC01 (continuous)		FlintCC02 (continuous)		FlintCC03 (continuous)	
Analyte	units	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
Total Metals, TTLC																					
Mercury	mg/Kg	0.0210	0.0038	0.024	0.0034	0.0700	0.0034	0.1100	0.0044	0.0560	0.0035	0.2800	0.0038	0.0510	0.0036	0.3400	0.0040	0.5100	0.0036	0.1800	0.0038
Antimony	mg/Kg	ND	1.800	ND	1.800	ND	1.800	ND	1.700	ND	1.700	ND	1.600	ND	1.500	ND	1.800	ND	1.800	ND	1.800
Arsenic	mg/Kg	6.200	3.600	4.400	3.600	4.700	3.800	ND	3.400	9.100	3.400	5.800	3.200	8.400	3.100	6.400	3.600	8.500	3.600	6.900	3.600
Barium	mg/Kg	61.000	4.500	72.000	4.500	80.000	4.700	120.000	4.200	170.000	4.300	79.000	4.000	61.000	3.800	120.000	4.500	85.000	4.500	130.000	4.500
Beryllium	mg/Kg	ND	0.450	ND	0.450	ND	0.470	ND	0.420	ND	0.430	ND	0.400	ND	0.380	ND	0.450	ND	0.450	ND	0.450
Cadmium	mg/Kg	ND	0.550	ND	0.550	ND	0.570	0.610	0.510	ND	0.520	ND	0.480	ND	0.460	0.700	0.550	0.700	0.540	0.900	0.550
Chromium	mg/Kg	54.000	5.500	52.000	5.500	43.000	5.700	32.000	5.100	41.000	5.200	64.000	4.800	35.000	4.600	21.000	5.500	17.000	5.400	23.000	5.500
Cobalt	mg/Kg	12.000	0.910	11.000	0.910	9.000	0.940	6.800	0.850	8.900	0.860	11.000	0.810	8.900	0.760	4.600	0.910	3.900	0.900	5.400	0.910
Copper	mg/Kg	18.000	1.800	19.000	1.800	22.000	1.900	32.000	1.700	16.000	1.700	18.000	1.600	23.000	1.500	9.400	1.800	8.200	1.800	11.000	1.800
Lead	mg/Kg	7.100	4.500	5.300	4.500	ND	4.700	65.000	4.200	8.000	4.300	42.000	4.000	6.700	3.800	6.200	4.500	8.000	4.500	10.000	4.500
Molybdenum	mg/Kg	ND	0.910	ND	0.910	ND	0.940	ND	0.850	ND	0.860	ND	0.810	ND	0.760	ND	0.910	ND	0.900	ND	0.910
Nickel	mg/Kg	66.000	0.910	47.000	0.910	38.000	0.940	41.000	0.850	51.000	0.860	82.000	0.810	37.000	0.760	22.000	0.910	18.000	0.900	23.000	0.910
Selenium	mg/Kg	ND	4.500	ND	4.500	ND	4.700	ND	4.200	ND	4.300	ND	4.000	ND	3.800	ND	4.500	ND	4.500	ND	4.500
Silver	mg/Kg	ND	1.400	ND	1.400	ND	1.400	ND	1.300	ND	1.300	ND	1.200	ND	1.100	ND	1.400	ND	1.400	ND	1.400
Thallium	mg/Kg	ND	1.600	ND	1.600	ND	1.700	ND	1.500	1.900	1.600	4.000	1.500	5.800	1.400	2.200	1.600	ND	1.600	4.300	1.600
Vanadium	mg/Kg	47.000	1.400	54.000	1.400	47.000	1.400	26.000	1.300	34.000	1.300	27.000	1.200	31.000	1.100	27.000	1.400	23.000	1.400	27.000	1.400
Zinc	mg/Kg	52.000	6.400	49.000	6.400	70.000	6.600	150.000	5.900	44.000	6.000	140.000	5.600	48.000	5.300	34.000	6.400	38.000	6.300	45.000	6.400
Methyl Mercury, (EPA 1630 Modified)																					
Methyl Mercury	ng/g	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		0.403	0.070	Not Analyzed		Not Analyzed		Not Analyzed	
Soluable Metals, STLC																					
Mercury	ug/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Antimony	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Arsenic	ug/L	ND	200.0	480.0	200.0	390.0	200.0	370.0	200.0	290.0	200.0	240.0	200.0	ND	200.0	200.0	200.0	ND	200.0	ND	200.0
Barium	ug/L	4400.0	200.0	5100.0	200.0	6600.0	200.0	11000.0	200.0	13000.0	200.0	7400.0	200.0	6300.0	200.0	7100.0	200.0	6200.0	200.0	7600.0	200.0
Beryllium	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Cadmium	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	52.0	20.0	35.0	20.0	ND	20.0
Chromium	ug/L	100.0	20.0	120.0	20.0	140.0	20.0	270.0	20.0	79.0	20.0	760.0	20.0	200.0	20.0	75.0	20.0	110.0	20.0	150.0	20.0
Cobalt	ug/L	130.0	80.0	170.0	80.0	240.0	80.0	200.0	80.0	290.0	80.0	400.0	80.0	310.0	80.0	230.0	80.0	210.0	80.0	250.0	80.0
Copper	ug/L	110.0	20.0	130.0	20.0	200.0	20.0	45.0	20.0	190.0	20.0	ND	20.0	190.0	20.0	140.0	20.0	ND	20.0	ND	20.0
Lead	ug/L	ND	200.0	ND	200.0	ND	200.0	2600.0	200.0	ND	200.0	1200.0	200.0	410.0	200.0	250.0	200.0	3300.0	200.0	220.0	200.0
Molybdenum	ug/L	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0
Nickel	ug/L	240.0	80.0	380.0	80.0	500.0	80.0	690.0	80.0	600.0	80.0	1500.0	80.0	690.0	80.0	430.0	80.0	480.0	80.0	610.0	80.0
Selenium	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Silver	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Thallium	ug/L	ND	200.0	ND	200.0	ND	200.0	480.0	200.0	ND	200.0	790.0	200.0	410.0	200.0	270.0	200.0	550.0	200.0	830.0	200.0
Vanadium	ug/L	120.0	80.0	180.0	80.0	210.0	80.0	710.0	80.0	570.0	80.0	690.0	80.0	230.0	80.0	300.0	80.0	480.0	80.0	750.0	80.0
Zinc	ug/L	1600.0	20.0	1600.0	20.0	2500.0	20.0	9100.0	20.0	1900.0	20.0	6900.0	20.0	2100.0	20.0	1600.0	20.0	1600.0	20.0	2100.0	20.0
Pesticides (EPA 8081)																					
Aldrin	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
alpha-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
beta-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
delta-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
gamma-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlordane (tech)	ug/Kg	ND	20.0	ND	20.0	ND	20.0	ND	200.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
4,4-DDD	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
4,4-DDE	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	20.0	2.7	2.0	8.2	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
4,4-DDT	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Dieldrin	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan I	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan II	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan sulfate	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Endrin	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endrin aldehyde	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Endrin keytone	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Heptachlor	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Heptachlor epoxide	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methoxychlor	ug/Kg	ND	20.0	ND	20.0	ND	20.0	ND	200.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Toxaphene	ug/Kg	ND	80.0	ND	80.0	ND	80.0	ND	800.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0

\*Lab misr - old time - Sample not analyzed  
File: ks\ sample Results SC\ContCore

2001 Sediment Removal Project -  
Analytical Data for Sediment Samples  
Continuous Core Samples

		FlintCC04 (continuous)		FlintCC05 (continuous)		GuadalupeCC01 (continuous)		GuadalupeCC02 (continuous)		GuadalupeCC03 (continuous)		LosCochesCC02 (continuous)		MataderoCC01 (continuous)		RandolCC01 (continuous)		RossCC01 (continuous)		RuckerCC01 (continuous)	
Analyte	units	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
Total Metals, TTLC																					
Mercury	mg/Kg	0.1600	0.0038	0.3700	0.0035	0.1100	0.0036	0.3800	0.0044	1.6000	0.0200	0.0290	0.0034	0.0510	0.0040	3.7000	0.0350	0.3200	0.0037	0.0310	0.0035
Antimony	mg/Kg	ND	1.800	ND	1.700	ND	1.800	ND	1.700	ND	1.600	ND	1.700	ND	1.800	ND	1.800	ND	1.700	ND	1.500
Arsenic	mg/Kg	6.600	3.500	6.600	3.400	12.000	3.600	8.800	3.400	5.800	3.300	3.700	3.300	6.200	3.600	6.000	3.600	5.400	3.500	12.000	3.100
Barium	mg/Kg	130.000	4.400	120.000	4.300	160.000	4.500	140.000	4.200	120.000	4.100	93.000	4.100	75.000	4.500	69.000	4.500	72.000	4.300	150.000	3.800
Beryllium	mg/Kg	ND	0.440	ND	0.430	ND	0.450	ND	0.420	ND	0.410	ND	0.410	ND	0.450	ND	0.450	ND	0.430	ND	0.380
Cadmium	mg/Kg	0.770	0.530	0.930	0.510	ND	0.540	ND	0.500	0.630	0.490	ND	0.500	ND	0.550	ND	0.540	ND	0.520	ND	0.460
Chromium	mg/Kg	24.000	5.300	20.000	5.100	62.000	5.400	52.000	5.000	69.000	4.900	22.000	5.000	46.000	5.500	100.000	5.400	42.000	5.200	37.000	4.600
Cobalt	mg/Kg	5.800	0.880	4.100	0.850	14.000	0.890	10.000	0.840	13.000	0.810	5.100	0.830	9.900	0.910	18.000	0.890	9.100	0.870	9.700	0.770
Copper	mg/Kg	11.000	1.800	7.600	1.700	32.000	1.800	26.000	1.700	43.000	1.600	9.300	1.700	28.000	1.800	24.000	1.800	13.000	1.700	26.000	1.500
Lead	mg/Kg	9.800	4.400	4.800	4.300	10.000	4.500	11.000	4.200	43.000	4.100	6.700	4.100	25.000	4.500	12.000	4.500	11.000	4.300	16.000	3.800
Molybdenum	mg/Kg	ND	0.880	ND	0.850	ND	0.890	ND	0.840	ND	0.810	ND	0.830	ND	0.910	ND	0.890	ND	0.870	ND	0.770
Nickel	mg/Kg	22.000	0.880	17.000	0.850	88.000	0.890	56.000	0.840	78.000	0.810	28.000	0.830	50.000	0.910	150.000	0.890	46.000	0.870	32.000	0.770
Selenium	mg/Kg	ND	4.400	ND	0.430	ND	4.500	ND	4.200	ND	4.100	ND	4.100	ND	4.500	ND	4.500	ND	4.300	ND	3.800
Silver	mg/Kg	ND	1.300	ND	1.300	ND	1.300	ND	1.300	ND	1.200	ND	1.200	ND	1.400	ND	1.300	ND	1.300	ND	1.200
Thallium	mg/Kg	4.200	1.600	3.100	1.500	9.900	1.600	4.800	1.500	7.200	1.500	ND	1.500	ND	1.600	2.300	1.600	ND	1.600	7.100	1.400
Vanadium	mg/Kg	29.000	1.300	25.000	1.300	45.000	1.300	46.000	1.300	44.000	1.200	19.000	1.200	35.000	1.400	47.000	1.300	39.000	1.300	37.000	1.200
Zinc	mg/Kg	49.000	6.200	33.000	6.000	66.000	6.200	55.000	5.900	150.000	5.700	33.000	5.800	66.000	6.400	110.000	6.200	75.000	6.100	51.000	5.400
Methyl Mercury, (EPA 1630 Modified)																					
Methyl Mercury	ng/g	Not Analyzed		Not Analyzed		0.072	0.070	0.380	0.070	0.795	0.070	Not Analyzed		Not Analyzed		0.225	0.070	Not Analyzed		Not Analyzed	
Soluble Metals, STLC																					
Mercury	ug/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Antimony	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Arsenic	ug/L	370.0	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	310.0	200.0	ND	200.0	ND	200.0	ND	200.0
Barium	ug/L	8500.0	200.0	6900.0	200.0	10000.0	200.0	9600.0	200.0	8800.0	200.0	7100.0	200.0	5800.0	200.0	5800.0	200.0	5900.0	200.0	11000.0	200.0
Beryllium	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Cadmium	ug/L	ND	20.0	42.0	20.0	ND	20.0	ND	20.0	38.0	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Chromium	ug/L	230.0	20.0	ND	20.0	310.0	20.0	210.0	20.0	700.0	20.0	47.0	20.0	760.0	20.0	2300.0	20.0	260.0	20.0	270.0	20.0
Cobalt	ug/L	280.0	80.0	ND	80.0	560.0	80.0	720.0	80.0	470.0	80.0	220.0	80.0	160.0	80.0	750.0	80.0	270.0	80.0	590.0	80.0
Copper	ug/L	24.0	20.0	49.0	20.0	220.0	20.0	250.0	20.0	1500.0	20.0	150.0	20.0	ND	20.0	ND	20.0	140.0	20.0	140.0	20.0
Lead	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	2000.0	200.0	ND	200.0	ND	200.0	ND	200.0	350.0	200.0	330.0	200.0
Molybdenum	ug/L	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0
Nickel	ug/L	700.0	80.0	160.0	80.0	1600.0	80.0	1300.0	80.0	1400.0	80.0	430.0	80.0	820.0	80.0	5000.0	80.0	750.0	80.0	480.0	80.0
Selenium	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Silver	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Thallium	ug/L	1200.0	200.0	ND	200.0	290.0	200.0	ND	200.0	570.0	200.0	ND	200.0	530.0	200.0	1200.0	200.0	300.0	200.0	550.0	200.0
Vanadium	ug/L	1100.0	80.0	ND	80.0	410.0	80.0	820.0	80.0	650.0	80.0	220.0	80.0	940.0	80.0	1000.0	80.0	350.0	80.0	670.0	80.0
Zinc	ug/L	2000.0	20.0	1800.0	20.0	1100.0	20.0	1200.0	20.0	7300.0	20.0	1800.0	20.0	2600.0	20.0	5600.0	20.0	3900.0	20.0	1500.0	20.0
Pesticides (EPA 8081)																					
Aldrin	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	10.0	ND	1.0	ND	1.0
alpha-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	10.0	ND	1.0	ND	1.0
beta-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	10.0	ND	1.0	ND	1.0
delta-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	10.0	ND	1.0	ND	1.0
gamma-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	10.0	ND	1.0	ND	1.0
Chlordane (tech)	ug/Kg	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	200.0	ND	200.0	ND	20.0	ND	20.0
4,4-DDD	ug/Kg	ND	6.0	ND	6.0	ND	6.0	13	6.0	ND	6.0	ND	6.0	ND	60.0	ND	60.0	ND	6.0	ND	6.0
4,4-DDE	ug/Kg	(3.3)	2.0	ND	2.0	ND	2.0	(3.3)	2.0	(3.8)	2.0	ND	2.0	ND	20.0	ND	20.0	ND	2.0	ND	2.0
4,4-DDT	ug/Kg	ND	6.0	ND	6.0	ND	6.0	14	6.0	ND	6.0	ND	6.0	ND	60.0	ND	60.0	ND	6.0	ND	6.0
Dieldrin	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	20.0	ND	2.0	ND	2.0
Endosulfan I	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	20.0	ND	2.0	ND	2.0
Endosulfan II	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	20.0	ND	2.0	ND	2.0
Endosulfan sulfate	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	60.0	ND	6.0	ND	6.0
Endrin	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	20.0	ND	2.0	ND	2.0
Endrin aldehyde	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	60.0	ND	6.0	ND	6.0
Endrin keytone	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	60.0	ND	6.0	ND	6.0
Heptachlor	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	10.0	ND	1.0	ND	1.0
Heptachlor epoxide	ug/Kg	ND	1.0	ND	1.0	ND	1.0	12	1.0	ND	1.0	ND	1.0	ND	10.0	ND	10.0	ND	1.0	ND	1.0
Methoxychlor	ug/Kg	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	200.0	ND	200.0	ND	20.0	ND	20.0
Toxaphene	ug/Kg	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	800.0	ND	800.0	ND	80.0	ND	80.0

\*Lab missed hold time - Sample not analyzed  
File: ks\2001 Sample Results SC\ContCore



2001 Sediment Removal Project -  
Analytical Data for Sediment Samples  
Continuous Core Samples

		SierraCC01 (continuous)	
Analyte	units	results	det. lim.
Total Metals, TTLC			
Mercury	mg/Kg	0.0290	0.0039
Antimony	mg/Kg	ND	1.800
Arsenic	mg/Kg	6.300	3.500
Barium	mg/Kg	120.000	4.400
Beryllium	mg/Kg	ND	0.440
Cadmium	mg/Kg	ND	0.530
Chromium	mg/Kg	62.000	5.300
Cobalt	mg/Kg	8.600	0.880
Copper	mg/Kg	15.000	1.800
Lead	mg/Kg	5.500	4.400
Molybdenum	mg/Kg	ND	0.880
Nickel	mg/Kg	100.000	0.880
Selenium	mg/Kg	ND	4.400
Silver	mg/Kg	ND	1.300
Thallium	mg/Kg	4.200	1.600
Vanadium	mg/Kg	26.000	1.300
Zinc	mg/Kg	40.000	6.200
Methyl Mercury, (EPA 1630 Modified)			
Methyl Mercury	ng/g	Not Analyzed	
Soluable Metals, STLC			
Mercury	ug/L	ND	1.0
Antimony	ug/L	ND	200.0
Arsenic	ug/L	ND	200.0
Barium	ug/L	6500.0	200.0
Beryllium	ug/L	ND	20.0
Cadmium	ug/L	22.0	20.0
Chromium	ug/L	430.0	20.0
Cobalt	ug/L	220.0	80.0
Copper	ug/L	56.0	20.0
Lead	ug/L	ND	200.0
Molybdenum	ug/L	ND	80.0
Nickel	ug/L	1200.0	80.0
Selenium	ug/L	ND	200.0
Silver	ug/L	ND	20.0
Thallium	ug/L	240.0	200.0
Vanadium	ug/L	200.0	80.0
Zinc	ug/L	1400.0	20.0
Pesticides (EPA 8081)			
Aldrin	ug/Kg	ND	1.0
alpha-BHC	ug/Kg	ND	1.0
beta-BHC	ug/Kg	ND	1.0
delta-BHC	ug/Kg	ND	1.0
gamma-BHC	ug/Kg	ND	1.0
Chlordane (tech)	ug/Kg	ND	20.0
4,4-DDD	ug/Kg	ND	6.0
4,4-DDE	ug/Kg	ND	2.0
4,4-DDT	ug/Kg	ND	6.0
Dieldrin	ug/Kg	ND	2.0
Endosulfan I	ug/Kg	ND	2.0
Endosulfan II	ug/Kg	ND	2.0
Endosulfan sulfate	ug/Kg	ND	6.0
Endrin	ug/Kg	ND	2.0
Endrin aldehyde	ug/Kg	ND	6.0
Endrin keytone	ug/Kg	ND	6.0
Heptachlor	ug/Kg	ND	1.0
Heptachlor epoxide	ug/Kg	ND	1.0
Methoxychlor	ug/Kg	ND	20.0
Toxaphene	ug/Kg	ND	80.0

\*Lab missed hold time - Sample not analyzed  
File: ksl2\ Sample Results SC\ContCore

Analytical Data for Sediment Samples  
Continuous Core Samples

		AdobeCC01 (continuous)		BerryMilCC01 (continuous)		BerryMilCC02 (continuous)		BerryCropCC01 (continuous)		BerryPiedCC01 (continuous)		CalabazasCC01 (continuous)		CalabazasCC02 (continuous)		CalabazasCC03 (continuous)		CalabazasCC04 (continuous)		CalabazasCC05 (continuous)	
Analyte	units	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
<b>PCBs (8082)</b>																					
PCB-1016	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1221	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1232	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1242	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1248	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1254	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1260	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1262	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1268	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
<b>Organophosphorous Comp. (EPA 8141)</b>																					
Azinphos-methyl	ug/Kg	Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		ND	40	Not Analyzed		Not Analyzed	
Boistar	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Chlorpyrifos	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Coumaphos	ug/Kg	Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		ND	40	Not Analyzed		Not Analyzed	
Demeton	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Diazanone	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Dichlorvos	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Disulfoton	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Ethion	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Ethoprop	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
EPN	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Fensulfthion	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Fenthion	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Malathion	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Merphos	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Mevinphos	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Monocrotophos	ug/Kg	Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		ND	40	Not Analyzed		Not Analyzed	
Naled	ug/Kg	Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		ND	40	Not Analyzed		Not Analyzed	
Parathion-ethyl	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Parathion-methyl	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Phorate	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Ronnel	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Stirophos	ug/Kg	Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		ND	40	Not Analyzed		Not Analyzed	
Sulfotep	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Tokuthion (Prothiofos)	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Trichloronate	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
<b>PAHs (EPA 8310)</b>																					
Naphthalene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	2000	ND	100	ND	100	ND	100	ND	100
Acenaphthylene	ug/Kg	ND	500	ND	500	ND	500	ND	500	ND	500	ND	100000	ND	500	ND	500	ND	500	ND	500
Acenaphthene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	2000	ND	100	ND	100	ND	100	ND	100
Fluorene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	1500	400	ND	20	ND	20	ND	20	ND	20
Phenanthrene	ug/Kg	130.0	10	ND	10	ND	10	ND	10	ND	10	8300	200	46	10	ND	10	12	10	18	10
Anthracene	ug/Kg	ND	10	ND	10	ND	10	ND	10	ND	10	2300	200	ND	10	ND	10	ND	10	ND	10
Flouranthene	ug/Kg	360.0	20	ND	20	ND	20	ND	20	ND	20	8100	400	110	20	ND	20	33	20	60	20
Pyrene	ug/Kg	300.0	10	ND	10	ND	10	ND	10	ND	10	6800	200	110	10	ND	10	39	10	51	10
Benzo(a)anthracene	ug/Kg	96.0	10	ND	10	ND	10	ND	10	ND	10	2500	200	31	10	ND	10	14	10	16	10
Chrysene	ug/Kg	180.0	10	ND	10	ND	10	ND	10	ND	10	3100	200	55	10	ND	10	18	10	31	10
Benzo(b)fluoranthene	ug/Kg	170.0	20	ND	20	ND	20	ND	20	ND	20	2000	400	61	20	ND	20	25	20	33	20
Benzo(k)fluoranthene	ug/Kg	ND	10	ND	10	ND	10	ND	10	ND	10	1100	200	28	10	ND	10	ND	10	18	10
Benzo(a)pyrene	ug/Kg	ND	10	ND	10	ND	10	ND	10	ND	10	2400	200	56	10	ND	10	21	10	30	10
Dibenz(ah)anthracene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	400	40	20	ND	20	ND	20	ND	20
Benzo(ghi)perylene	ug/Kg	170.0	20	ND	20	ND	20	ND	20	ND	20	1500	400	76	20	ND	20	29	20	28	20
Indeno(1,2,3-cd)pyrene	ug/Kg	210.0	20	ND	20	ND	20	ND	20	ND	20	1600	400	49	20	ND	20	ND	20	30	20
<b>Moisture Content (EPA 160.3)</b>																					
Moisture Content	%	37	0.10	Not Analyzed		20.0	0.10	5.7	0.10	5.8	0.10	Not Analyzed		Not Analyzed		80	0.10	Not Analyzed		Not Analyzed	
<b>TEH-Kerosene/Diesel (DHS-LUFT)</b>																					
Kerosene C9-C18	mg/Kg	31	10	Not Analyzed		ND	1.0	2.9	1.0	2.1	1.0	Not Analyzed		Not Analyzed		ND	1.0	Not Analyzed		Not Analyzed	
Diesel	mg/Kg	100	10	Not Analyzed		3.1	1.0	5.7	1.0	3.6	1.0	Not Analyzed		Not Analyzed		1.6	1.0	Not Analyzed		Not Analyzed	

2001 Sediment Removal Project -  
Analytical Data for Sediment Samples  
Continuous Core Samples

		CalabazasCC06 (continuous)		CalabazasCC07 (continuous)		CalabazasCC08 (continuous)		CaleraMilCC01 (continuous)		CaleraEscCC01 (continuous)		CanoasCC01 (continuous)		CoyoteCC01 (continuous)		FlintCC01 (continuous)		FlintCC02 (continuous)		FlintCC03 (continuous)	
Analyte	units	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
<b>PCBs (8082)</b>																					
PCB-1016	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1221	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1232	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1242	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1248	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1254	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1260	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1262	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1268	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
<b>Organophosphorous Comp. (EPA 8141)</b>																					
Azinphos-methyl	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		Not Analyzed	
Bolstar	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Chloropyrifos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Coumaphos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		Not Analyzed	
Demeton	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		Not Analyzed	
Diazanone	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Dichlorvos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Disulfoton	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Ethion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Ethoprop	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
EPN	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Fensulfthion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Fenthion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Malathion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Merphos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Mevinphos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Monocrotophos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		Not Analyzed	
Naled	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		Not Analyzed	
Parathion-ethyl	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Parathion-methyl	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Phorate	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Ronnel	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Stirophos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		Not Analyzed	
Sulfotep	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Tokuthion (Prothiofos)	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Trichloronate	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
<b>PAHs (EPA 8310)</b>																					
Naphthalene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Acenaphthylene	ug/Kg	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500
Acenaphthene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Fluorene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	77	20	ND	20	ND	20	ND	20	ND	20
Phenanthrene	ug/Kg	ND	10	25	10	13	10	35	10	ND	10	940	10	ND	10	ND	10	ND	10	ND	10
Anthracene	ug/Kg	ND	10	ND	10	ND	10	ND	10	ND	10	110	10	ND	10	ND	10	ND	10	ND	10
Flouranthene	ug/Kg	ND	20	68	20	40	20	110	20	ND	20	1700	100	ND	20	ND	20	ND	20	ND	20
Pyrene	ug/Kg	ND	10	68	10	36	10	110	10	ND	10	1400	50	ND	10	ND	10	ND	10	ND	10
Benzo(a)anthracene	ug/Kg	ND	10	21	10	10	10	48	10	ND	10	500	50	ND	10	ND	10	ND	10	ND	10
Chrysene	ug/Kg	ND	10	40	10	19	10	60	10	ND	10	700	50	ND	10	ND	10	ND	10	ND	10
Benzo(b)fluoranthene	ug/Kg	ND	20	34	20	32	20	110	20	ND	20	570	20	ND	20	ND	20	ND	20	ND	20
Benzo(k)fluoranthene	ug/Kg	ND	10	16	10	11	10	410	10	ND	10	250	10	ND	10	ND	10	ND	10	ND	10
Benzo(a)pyrene	ug/Kg	ND	10	30	10	20	10	220	10	ND	10	610	50	ND	10	ND	10	ND	10	ND	10
Dibenz(ah)anthracene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	100	ND	20	ND	20	ND	20	ND	20
Benzo(ghi)perylene	ug/Kg	ND	20	26	20	ND	20	70	20	ND	20	540	20	ND	20	ND	20	ND	20	ND	20
Indeno(1,2,3-cd)pyrene	ug/Kg	ND	20	32	20	ND	20	100	20	ND	20	270	20	ND	20	ND	20	ND	20	ND	20
<b>Moisture Content (EPA 160.3)</b>																					
Moisture Content	%	Not Analyzed		Not Analyzed		Not Analyzed		53	0.10	20	0.10	24	0.10	16	0.10	8.0	0.10	Not Analyzed		Not Analyzed	
<b>TEH-Kerosene/Diesel (DHS-LUFI)</b>																					
Kerosene C9-C18	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		34	4.0	2.0	1.0	16	4.0	ND	1.0	2.1	1.0	Not Analyzed		Not Analyzed	
Diesel	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		160.0	4.0	5.2	1.0	82	4.0	3.7	1.0	6.3	1.0	Not Analyzed		Not Analyzed	

\*Lab mtr - hold time - Sample not analyzed  
File: ks Sample Results SC\ContCore

Analytical Data      Sediment Samples  
Continuous Core Samples

		FlintCC04 (continuous)		FlintCC05 (continuous)		GuadalupeCC01 (continuous)		GuadalupeCC02 (continuous)		GuadalupeCC03 (continuous)		LosCochesCC02 (continuous)		MataderoCC01 (continuous)		RandoIC001 (continuous)		RossCC01 (continuous)		RuckerCC01 (continuous)	
Analyte	units	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
<b>PCBs (8082)</b>																					
PCB-1016	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1221	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1232	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1242	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1248	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1254	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1260	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1262	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1268	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
<b>Organophosphorous Comp. (EPA 8141)</b>																					
Azinphos-methyl	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		ND	40
Bolstar	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Chlorpyrifos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Coumaphos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		ND	40
Demeton	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Diazanone	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Dichlorvos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Disulfoton	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Ethion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Ethoprop	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
EPN	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Fensulfothion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Fenthion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Malathion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Merphos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Mevinphos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Monocrotophos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		ND	40
Naled	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		ND	40
Parathion-ethyl	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Parathion-methyl	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Phorate	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Ronnel	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Stirophos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		ND	40
Sulfotep	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Tokuthion (Prothiofos)	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Trichloronate	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
<b>PAHs (EPA 8310)</b>																					
Naphthalene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Acenaphthylene	ug/Kg	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500
Acenaphthene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Fluorene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	22	20	ND	20	ND	20	ND	20
Phenanthrene	ug/Kg	ND	10	ND	10	ND	10	15	10	54	10	13	10	250	10	ND	10	ND	10	ND	10
Anthracene	ug/Kg	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	140	10	ND	10	ND	10	ND	10
Flouranthene	ug/Kg	ND	20	ND	20	ND	20	33	20	160	20	39	20	630	20	ND	20	ND	20	ND	20
Pyrene	ug/Kg	ND	10	ND	10	ND	10	41	10	150	10	25	10	450	20	35	10	ND	10	ND	10
Benzo(a)anthracene	ug/Kg	ND	10	ND	10	ND	10	13	10	35	10	ND	10	210	10	11	10	ND	10	ND	10
Chrysene	ug/Kg	ND	10	ND	10	ND	10	ND	10	89	10	15	10	280	10	ND	10	ND	10	ND	10
Benzo(b)fluoranthene	ug/Kg	ND	20	ND	20	ND	20	63	20	120	20	ND	20	250	20	ND	20	ND	20	ND	20
Benzo(k)fluoranthene	ug/Kg	ND	10	ND	10	ND	10	ND	10	47	10	ND	10	300	10	ND	10	ND	10	ND	10
Benzo(a)pyrene	ug/Kg	ND	10	ND	10	ND	10	64	10	100	10	17	10	320	10	ND	10	ND	10	ND	10
Dibenz(ah)anthracene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Benzo(ghi)perylene	ug/Kg	ND	20	ND	20	ND	20	ND	20	130	20	ND	20	210	20	ND	20	ND	20	ND	20
Indeno(1,2,3-cd)pyrene	ug/Kg	ND	20	ND	20	ND	20	ND	20	110	20	ND	20	140	20	ND	20	ND	20	ND	20
<b>Moisture Content (EPA 160.3)</b>																					
Moisture Content	%	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		33	0.10	28	0.10	42	0.10	33	0.10	16	0.10	24	0.10
<b>TEH-Kerosene/Diesel (DHS-LUFT)</b>																					
Kerosene C9-C18	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		8.7	1.0	3.9	1.0	ND	1.0	17	1.0	ND	1.0	ND	1.0
Diesel	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		51.0	1.0	13.0	1.0	33.0	1.0	31.0	1.0	2.9	1.0	1.2	1.0

2001 Sediment Removal Project -  
Analytical Data for Sediment Samples  
Continuous Core Samples

		SierraCC01 (continuous)	
Analyte	units	results	det. lim.
<b>PCBs (8082)</b>			
PCB-1016	ug/Kg	Not Analyzed	
PCB-1221	ug/Kg	Not Analyzed	
PCB-1232	ug/Kg	Not Analyzed	
PCB-1242	ug/Kg	Not Analyzed	
PCB-1248	ug/Kg	Not Analyzed	
PCB-1254	ug/Kg	Not Analyzed	
PCB-1260	ug/Kg	Not Analyzed	
PCB-1262	ug/Kg	Not Analyzed	
PCB-1268	ug/Kg	Not Analyzed	
<b>Organophosphorous Comp. (EPA 8141)</b>			
Azinphos-methyl	ug/Kg	ND	40
Bolstar	ug/Kg	ND	20
Chlorpyrifos	ug/Kg	ND	20
Coumaphos	ug/Kg	ND	40
Demeton	ug/Kg	ND	20
Diazanion	ug/Kg	ND	20
Dichlorvos	ug/Kg	ND	20
Disulfoton	ug/Kg	ND	20
Ethion	ug/Kg	ND	20
Ethoprop	ug/Kg	ND	20
EPN	ug/Kg	ND	20
Fensulfthion	ug/Kg	ND	20
Fenthion	ug/Kg	ND	20
Malathion	ug/Kg	ND	20
Merphos	ug/Kg	ND	20
Mevinphos	ug/Kg	ND	20
Monocrotophos	ug/Kg	ND	40
Naled	ug/Kg	ND	40
Parathion-ethyl	ug/Kg	ND	20
Parathion-methyl	ug/Kg	ND	20
Phorate	ug/Kg	ND	20
Ronnel	ug/Kg	ND	20
Stirophos	ug/Kg	ND	40
Sulfotep	ug/Kg	ND	20
Tokuthion (Prothiofos)	ug/Kg	ND	20
Trichloronate	ug/Kg	ND	20
<b>PAHs (EPA 8310)</b>			
Naphthalene	ug/Kg	ND	100
Acenaphthylene	ug/Kg	ND	500
Acenaphthene	ug/Kg	ND	100
Fluorene	ug/Kg	ND	20
Phenanthrene	ug/Kg	ND	10
Anthracene	ug/Kg	ND	10
Flouranthene	ug/Kg	29	20
Pyrene	ug/Kg	15	10
Benzo(a)anthracene	ug/Kg	12	10
Chrysene	ug/Kg	ND	10
Benzo(b)fluoranthene	ug/Kg	28	20
Benzo(k)fluoranthene	ug/Kg	ND	10
Benzo(a)pyrene	ug/Kg	ND	10
Dibenz(ah)anthracene	ug/Kg	ND	20
Benzo(ghi)perylene	ug/Kg	ND	20
Indeno(1,2,3-cd)pyrene	ug/Kg	ND	20
<b>Moisture Content (EPA 160.3)</b>			
Moisture Content	%	21	0.10
<b>TEH-Kerosene/Diesel (DHS-LUFT)</b>			
Kerosene C9-C18	mg/Kg	1.6	1.0
Diesel	mg/Kg	5.4	1.0

\*Lab mis- hold time - Sample not analyzed  
File: ks' Sample Results SC\ContCore

2001 Sediment Removal Project -  
Analytical Data for Sediment Samples  
Continuous Core Samples

		AdobeCC01 (continuous)		BerryMilCC01 (continuous)		BerryMilCC02 (continuous)		BerryCropCC01 (continuous)		BerryPiedCC01 (continuous)		CalabazasCC01 (continuous)		CalabazasCC02 (continuous)		CalabazasCC03 (continuous)		CalabazasCC04 (continuous)		CalabazasCC05 (continuous)	
Analyte	units	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
<b>Total Organic Carbon (EPA 415.2)</b>																					
Total Organic Carbon	mg/Kg	24000	200	Not Analyzed		770	200	1600	200	1200	200	Not Analyzed		Not Analyzed		5900	200	Not Analyzed		Not Analyzed	
<b>Chloride (EPA 325.2)</b>																					
Chloride	mg/Kg	38	1.0	Not Analyzed		120.0	10	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		120	10	Not Analyzed		Not Analyzed	
<b>pH (EPA 9045C)</b>																					
		7.55	0.200	Not Analyzed		8.45	0.200	8.08	0.200	8.38	0.200	Not Analyzed		Not Analyzed		8.44	0.200	Not Analyzed		Not Analyzed	
<b>Sulfide</b>																					
	mg/Kg	ND	10	Not Analyzed		ND	10	ND	10	ND	10	Not Analyzed		Not Analyzed		ND	10	Not Analyzed		Not Analyzed	
<b>Ammonia (EPA 350.1)</b>																					
	mg/Kg	ND	2.0	Not Analyzed		ND	2.0	ND	2.0	ND	2.0	Not Analyzed		Not Analyzed		ND	2.0	Not Analyzed		Not Analyzed	
<b>Chlorinated Herbicides (EPA 8151)</b>																					
2,4-D	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4-DB	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-T	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-TP (Silvex)	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dalapon	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dicamba	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dichlorprop	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dinoseb	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCPA	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCPP	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
<b>Herbicides (Various)</b>																					
Rodeo, Roundup (Glyphosate)	ug/g	ND	0.050	Not Analyzed		ND	0.050	ND	0.050	ND	0.050	Not Analyzed		Not Analyzed		ND	0.050	Not Analyzed		Not Analyzed	
Rodeo, Roundup (AMPA)		0.091	0.050	Not Analyzed		ND	0.050	ND	0.050	ND	0.050	Not Analyzed		Not Analyzed		ND	0.050	Not Analyzed		Not Analyzed	
Gallery (Isxaben)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	1.000	Not Analyzed		Not Analyzed	
Surflan (Oryzalin)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Telar (Chlorsulfuron)		Not Analyzed		Not Analyzed		ND	0.100	ND	0.100	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Pendulum (Pendimethalin)		ND	1.000	Not Analyzed		ND	1.000	ND	1.000	ND	1.000	Not Analyzed		Not Analyzed		ND	1.000	Not Analyzed		Not Analyzed	

**Analytical Data for Sediment Samples  
Continuous Core Samples**

		CalabazasCC06 (continuous)		CalabazasCC07 (continuous)		CalabazasCC08 (continuous)		CaleraMilCC01 (continuous)		CaleraEscCC01 (continuous)		CanoasCC01 (continuous)		CoyoteCC01 (continuous)		FlintCC01 (continuous)		FlintCC02 (continuous)		FlintCC03 (continuous)	
Analyte	units	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
Total Organic Carbon (EPA 415.2)																					
Total Organic Carbon	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		*		7900	200	6600	200	3200	200	6000	200	Not Analyzed		Not Analyzed	
Chloride (EPA 325.2)																					
Chloride	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		380	10	Not Analyzed		Not Analyzed		Not Analyzed	
pH (EPA 9045C)																					
		Not Analyzed		Not Analyzed		Not Analyzed		7.40	0.200	7.94	0.200	8.44	0.200	8.26	0.200	8.25	0.200	Not Analyzed		Not Analyzed	
Sulfide																					
	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		120	10	ND	10	140	10	ND	10	ND	10	Not Analyzed		Not Analyzed	
Ammonia (EPA 350.1)																					
	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		ND	2.0	ND	2.0	2.8	2.0	ND	2.0	ND	2.0	Not Analyzed		Not Analyzed	
Chlorinated Herbicides (EPA 8151)																					
2,4-D	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4-DB	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-T	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-TP (Silvex)	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dalapon	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dicamba	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dichlorprop	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dinoseb	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCPA	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCPP	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Herbicides (Various)																					
Rodeo, Roundup (Glyphosate)	ug/g	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		0.140	0.050	Not Analyzed		ND	0.050	Not Analyzed		Not Analyzed	
Rodeo, Roundup (AMPA)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		0.140	0.050	Not Analyzed		ND	0.050	Not Analyzed		Not Analyzed	
Gallery (Isoxaben)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Surflan (Oryzalin)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	5.000	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Telar (Chlorsulfuron)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	0.100	Not Analyzed		Not Analyzed	
Pendulum (Pendimethalin)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	1.000	ND	1.000	Not Analyzed		Not Analyzed	



**Analytical Data   Sediment Samples**  
**Continuous Core Samples**

		<b>FlintCC04</b> (continuous)		<b>FlintCC05</b> (continuous)		<b>GuadalupeCC01</b> (continuous)		<b>GuadalupeCC02</b> (continuous)		<b>GuadalupeCC03</b> (continuous)		<b>LosCochesCC02</b> (continuous)		<b>MataderoCC01</b> (continuous)		<b>RandolCC01</b> (continuous)		<b>RossCC01</b> (continuous)		<b>RuckerCC01</b> (continuous)	
<b>Analyte</b>	<b>units</b>	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
<b>Total Organic Carbon (EPA 415.2)</b>																					
Total Organic Carbon	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		17000	200	12000	200	13000	200	13000	200	2200	200	2200	200
<b>Chloride (EPA 325.2)</b>																					
Chloride	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		12	1.0	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
<b>pH (EPA 9045C)</b>																					
		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		7.90	0.200	8.01	0.200	7.38	0.200	8.30	0.200	8.53	0.200	7.76	0.200
<b>Sulfide</b>																					
	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	10	ND	10	16	10	320	10	ND	10	ND	10
<b>Ammonia (EPA 350.1)</b>																					
	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	2.0	ND	2.0	4.3	2.0	3.4	2.0	ND	2.0	ND	2.0
<b>Chlorinated Herbicides (EPA 8151)</b>																					
2,4-D	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4-DB	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-T	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-TP (Silvex)	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dalapon	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dicamba	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dichlorprop	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dinoseb	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCPA	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCP	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
<b>Herbicides (Various)</b>																					
Rodeo, Roundup (Glyphosate)	ug/g	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	0.050	ND	0.050	0.110	0.050	Not Analyzed		Not Analyzed		Not Analyzed	
Rodeo, Roundup (AMPA)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	0.050	0.097	0.050	0.089	0.050	Not Analyzed		Not Analyzed		Not Analyzed	
Gallery (Isoxaben)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	1.000	Not Analyzed		ND	1.000	Not Analyzed		Not Analyzed		Not Analyzed	
Surflan (Oryzalin)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	5.000	ND	5.000	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Telar (Chlorsulfuron)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Pendulum (Pendimethalin)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	1.000	Not Analyzed		Not Analyzed		Not Analyzed	



Analytical Data for Sediment Samples  
Continuous Core Samples

		SierraCC01 (continuous)	
Analyte	units	results	det. lim.
<b>Total Organic Carbon (EPA 415.2)</b>			
Total Organic Carbon	mg/Kg	3400	200
<b>Chloride (EPA 325.2)</b>			
Chloride	mg/Kg	Not Analyzed	
<b>pH (EPA 9045C)</b>			
		8.31	0.200
<b>Sulfide</b>			
	mg/Kg	ND	10
<b>Ammonia (EPA 350.1)</b>			
	mg/Kg	ND	2.0
<b>Chlorinated Herbicides (EPA 8151)</b>			
2,4-D	ug/Kg	Not Analyzed	
2,4-DB	ug/Kg	Not Analyzed	
2,4,5-T	ug/Kg	Not Analyzed	
2,4,5-TP (Silvex)	ug/Kg	Not Analyzed	
Dalapon	ug/Kg	Not Analyzed	
Dicamba	ug/Kg	Not Analyzed	
Dichlorprop	ug/Kg	Not Analyzed	
Dinoseb	ug/Kg	Not Analyzed	
MCPA	ug/Kg	Not Analyzed	
MCP	ug/Kg	Not Analyzed	
<b>Herbicides (Various)</b>			
Rodeo, Roundup (Glyphosate)	ug/g	Not Analyzed	
Rodeo, Roundup (AMPA)		Not Analyzed	
Gallery (Isoxaben)		Not Analyzed	
Surflan (Oryzalin)		Not Analyzed	
Telar (Chlorsulfuron)		Not Analyzed	
Pendulum (Pendimethalin)		Not Analyzed	

2001 Sediment Removal Project -  
Analytical Data for Sediment Samples  
Composite Samples

		Adobe01A (comp A)		BerryMil01 (comp ABC)		BerryMil02 (comp ABC)		BerryCrop01 (comp ABC)		BerryPied01 (comp AB)		Calabazas01 (comp ABCD)		Calabazas02 (comp ABCD)		Calabazas03 (comp ABCD)		Calabazas04 (comp ABCD)		Calabazas05 (comp ABCD)	
Analyte	units	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
Total Metals, TTLC																					
Mercury	mg/Kg	0.6800	0.0038	0.0440	0.0040	0.0530	0.0043	0.1200	0.00380	0.1400	0.0039	0.0680	0.0035	0.0570	0.0041	0.0780	0.0039	0.0480	0.0040	0.0560	0.0041
Antimony	mg/Kg	ND	1.800	ND	1.800	ND	1.700	ND	1.700	ND	1.700	ND	1.900	ND	2.100	ND	2.100	ND	1.900	ND	1.900
Arsenic	mg/Kg	6.300	3.600	5.800	3.500	9.300	3.400	9.100	3.500	10.000	3.400	5.000	3.700	7.300	4.100	6.700	4.300	4.100	3.900	6.000	3.800
Barium	mg/Kg	86.000	4.500	130.000	4.400	88.000	4.300	97.000	4.300	140.000	4.200	110.000	4.600	130.000	5.200	120.000	5.300	110.000	4.900	93.000	4.800
Beryllium	mg/Kg	ND	0.450	ND	0.440	ND	0.430	ND	0.430	ND	0.420	ND	0.460	ND	0.520	ND	0.530	ND	0.490	ND	0.480
Cadmium	mg/Kg	ND	0.550	ND	0.530	ND	0.510	ND	0.520	ND	0.500	ND	0.560	ND	0.620	ND	0.640	ND	0.580	ND	0.580
Chromium	mg/Kg	87.000	5.500	41.000	5.300	30.000	5.100	44.000	5.200	37.000	5.000	56.000	5.600	59.000	6.200	56.000	6.400	59.000	5.800	39.000	5.800
Cobalt	mg/Kg	16.000	0.910	9.200	0.880	7.800	0.850	8.900	0.870	10.000	0.840	15.000	0.930	17.000	1.000	16.000	1.100	15.000	0.970	10.000	0.960
Copper	mg/Kg	31.000	1.800	14.000	1.800	19.000	1.700	28.000	1.700	24.000	1.700	26.000	1.900	27.000	2.100	27.000	2.100	23.000	1.900	19.000	1.900
Lead	mg/Kg	14.000	4.500	7.200	4.400	7.200	4.300	7.400	4.300	7.800	4.200	13.000	4.600	15.000	5.200	13.000	5.300	9.800	4.900	9.900	4.800
Molybdenum	mg/Kg	ND	0.910	ND	0.880	ND	0.850	ND	0.870	ND	0.840	ND	0.930	ND	1.000	ND	1.100	ND	0.970	ND	0.960
Nickel	mg/Kg	62.000	0.910	75.000	0.880	40.000	0.850	51.000	0.870	59.000	0.840	63.000	0.930	66.000	1.000	65.000	1.100	58.000	0.970	46.000	0.960
Selenium	mg/Kg	4.600	4.500	ND	4.400	ND	0.430	ND	4.300	ND	4.200	ND	4.600	ND	5.200	ND	5.300	ND	4.900	ND	4.800
Silver	mg/Kg	ND	1.400	ND	1.300	ND	1.300	ND	1.300	ND	1.300	ND	1.400	ND	1.500	ND	1.600	ND	1.500	ND	1.400
Thallium	mg/Kg	ND	1.600	ND	1.600	1.500	1.500	8.600	1.600	8.300	1.500	ND	1.700	ND	1.900	ND	1.900	ND	1.700	ND	1.700
Vanadium	mg/Kg	71.000	1.400	28.000	1.300	29.000	1.300	39.000	1.300	39.000	1.300	55.000	1.400	56.000	1.500	53.000	1.600	56.000	1.500	38.000	1.400
Zinc	mg/Kg	81.000	6.400	40.000	6.100	41.000	6.000	62.000	6.100	54.000	5.900	75.000	6.500	71.000	7.200	76.000	7.400	67.000	6.800	66.000	6.700
Methyl Mercury, (EPA 1630 Modified)																					
Methyl Mercury	ng/g	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Soluble Metals, STLC																					
Mercury	ug/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Antimony	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Arsenic	ug/L	290.0	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Barium	ug/L	5300.0	200.0	9300.0	200.0	7100.0	200.0	7400.0	200.0	8400.0	200.0	9700.0	200.0	9300.0	200.0	9600.0	200.0	8000.0	200.0	8400.0	200.0
Beryllium	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Cadmium	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Chromium	ug/L	740.0	20.0	210.0	20.0	170.0	20.0	260.0	20.0	230.0	20.0	200.0	20.0	190.0	20.0	190.0	20.0	190.0	20.0	260.0	20.0
Cobalt	ug/L	310.0	80.0	270.0	80.0	190.0	80.0	190.0	80.0	230.0	80.0	610.0	80.0	610.0	80.0	620.0	80.0	480.0	80.0	430.0	80.0
Copper	ug/L	ND	20.0	43.0	20.0	260.0	20.0	330.0	20.0	340.0	20.0	600.0	20.0	530.0	20.0	560.0	20.0	450.0	20.0	52.0	20.0
Lead	ug/L	ND	200.0	260.0	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	210.0	200.0	220.0	200.0	210.0	200.0	310.0	200.0
Molybdenum	ug/L	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0
Nickel	ug/L	640.0	80.0	1100.0	80.0	610.0	80.0	1400.0	80.0	1200.0	80.0	920.0	80.0	910.0	80.0	880.0	80.0	760.0	80.0	710.0	80.0
Selenium	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Silver	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Thallium	ug/L	860.0	200.0	340.0	200.0	ND	200.0	ND	200.0	ND	200.0	220.0	200.0	ND	200.0	200.0	200.0	ND	200.0	300.0	200.0
Vanadium	ug/L	860.0	80.0	470.0	80.0	280.0	80.0	170.0	80.0	180.0	80.0	520.0	80.0	470.0	80.0	460.0	80.0	370.0	80.0	540.0	80.0
Zinc	ug/L	3400.0	20.0	2200.0	20.0	1600.0	20.0	1400.0	20.0	1200.0	20.0	3900.0	20.0	3400.0	20.0	3700.0	20.0	3200.0	20.0	4300.0	20.0
Pesticides (EPA 8081)																					
Aldrin	ug/Kg	ND	10.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
alpha-BHC	ug/Kg	ND	10.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
beta-BHC	ug/Kg	ND	10.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	2.0	ND	2.0
delta-BHC	ug/Kg	ND	10.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
gamma-BHC	ug/Kg	ND	10.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlordane (tech)	ug/Kg	ND	200.0	ND	20.0	ND	200.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
4,4-DDD	ug/Kg	ND	60.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
4,4-DDE	ug/Kg	ND	20.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	3.2	2.0	4.0	2.0	ND	2.0	4.1	2.0
4,4-DDT	ug/Kg	ND	60.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Dieldrin	ug/Kg	ND	20.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan I	ug/Kg	ND	20.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan II	ug/Kg	ND	20.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan sulfate	ug/Kg	ND	60.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Endrin	ug/Kg	ND	20.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endrin aldehyde	ug/Kg	ND	60.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Endrin keytone	ug/Kg	ND	60.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Heptachlor	ug/Kg	ND	10.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Heptachlor epoxide	ug/Kg	ND	10.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methoxychlor	ug/Kg	ND	200.0	ND	20.0	ND	200.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Toxaphene	ug/Kg	ND	800.0	ND	80.0	ND	800.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0

\*Lab missed hold time - Sample not analyzed  
File: ks\2001 Sample Results SC\Comps

**2001 Sediment Removal Project -  
Analytical Data for Sediment Samples  
Composite Samples**

		Calabazas06 (comp ABCD)		Calabazas07 (comp ABCD)		Calabazas08 (comp AB)		CaleraMil01 (comp A)		CaleraEsc01 (comp A)		Canoas01 (comp ABCD)		Coyote01 (comp A)		Guadalupe01 (comp ABCD)		Guadalupe02 (comp ABCD)		Guadalupe03 (comp AB)	
Analyte	units	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
Total Metals, TTLC																					
Mercury	mg/Kg	0.026	0.0035	0.0200	0.0042	0.0240	0.0035	0.0470	0.0044	ND	0.0044	0.180	0.0033	0.1300	0.0034	2.000	0.021	2.600	0.021	3.100	0.039
Antimony	mg/Kg	ND	2.0	ND	1.900	1.800	1.800	1.700	1.600	ND	1.600	ND	1.800	ND	1.800	ND	1.800	ND	1.700	ND	1.800
Arsenic	mg/Kg	5.200	4.1	ND	3.700	7.200	3.600	8.600	3.300	4.800	3.200	4.100	3.500	9.100	3.500	13.000	3.600	11.000	3.400	11.000	3.600
Barium	mg/Kg	72.000	5.1	39.000	4.700	80.000	4.500	160.000	4.100	120.000	4.000	120.000	4.400	88.000	4.400	120.000	4.500	120.000	4.300	160.000	4.500
Beryllium	mg/Kg	ND	0.51	ND	0.470	ND	0.450	ND	0.410	ND	0.400	ND	0.440	ND	0.440	ND	0.450	ND	0.430	ND	0.450
Cadmium	mg/Kg	ND	0.61	ND	0.580	ND	0.550	ND	0.490	ND	0.480	ND	0.530	ND	0.530	ND	0.540	ND	0.520	0.800	0.540
Chromium	mg/Kg	61.000	6.1	31.000	5.600	84.000	5.500	37.000	4.900	28.000	4.800	78.000	5.300	47.000	5.300	65.000	5.400	61.000	5.200	77.000	5.400
Cobalt	mg/Kg	12.000	1.0	7.600	0.930	14.000	0.910	8.700	0.810	7.000	0.800	18.000	0.880	8.700	0.880	13.000	0.900	14.000	0.860	16.000	0.900
Copper	mg/Kg	20.000	2.0	11.000	1.900	34.000	1.800	17.000	1.600	13.000	1.600	29.000	1.800	23.000	1.800	29.000	1.800	30.000	1.700	49.000	1.800
Lead	mg/Kg	6.500	5.1	4.800	4.700	6.400	4.500	7.700	4.100	4.600	4.000	29.000	4.400	16.000	4.400	20.000	4.500	25.000	4.300	58.000	4.500
Molybdenum	mg/Kg	ND	1.0	ND	0.930	ND	0.910	ND	0.810	ND	0.800	ND	0.880	ND	0.880	ND	0.900	ND	0.860	ND	0.900
Nickel	mg/Kg	48.000	1.0	36.000	0.930	65.000	0.910	46.000	0.810	35.000	0.800	110.000	0.880	58.000	0.880	86.000	0.900	86.000	0.860	110.000	0.900
Selenium	mg/Kg	ND	5.1	ND	4.700	ND	4.500	ND	4.100	ND	4.000	ND	4.400	ND	4.400	ND	4.500	ND	4.300	ND	4.500
Silver	mg/Kg	ND	1.5	ND	1.400	ND	1.400	ND	1.200	ND	1.200	ND	1.300	ND	1.300	ND	1.400	ND	1.300	ND	1.400
Thallium	mg/Kg	ND	1.8	ND	1.700	ND	1.600	ND	1.500	ND	1.400	5.500	1.600	6.200	1.600	6.100	1.600	4.300	1.600	4.700	1.600
Vanadium	mg/Kg	54.000	1.5	31.000	1.400	61.000	1.400	33.000	1.200	27.000	1.200	30.000	1.300	31.000	1.300	41.000	1.400	44.000	1.300	48.000	1.400
Zinc	mg/Kg	54.000	7.1	33.000	6.500	59.000	6.400	47.000	5.700	35.000	5.600	150.000	6.100	72.000	6.100	72.000	6.300	74.000	6.000	160.000	6.300
Methyl Mercury, (EPA 1630 Modified)																					
Methyl Mercury	ng/g	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		2.898		0.070		0.217		0.070	
Soluable Metals, STLC																					
Mercury	ug/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.00	ND	1.0	ND	1.0	ND	1.0	ND	1.00
Antimony	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.00	ND	200.0	ND	200.0	ND	200.0	ND	200.00
Arsenic	ug/L	310.0	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.00	ND	200.0	ND	200.0	ND	200.0	880.0	200.00
Barium	ug/L	5300.0	200.0	5700.0	200.0	5000.0	200.0	12000.0	200.0	8100.0	200.0	8200.0	200.00	7300.0	200.0	8600.0	200.0	8200.0	200.0	11000.0	200.00
Beryllium	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.00	ND	20.0	ND	20.0	ND	20.0	ND	20.00
Cadmium	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.00	ND	20.0	ND	20.0	ND	20.0	49.0	20.00
Chromium	ug/L	110.0	20.0	97.0	20.0	92.0	20.0	110.0	20.0	68.0	20.0	890.0	20.00	340.0	20.0	290.0	20.0	390.0	20.0	770.0	20.00
Cobalt	ug/L	160.0	80.0	150.0	80.0	120.0	80.0	280.0	80.0	200.0	80.0	670.0	80.00	310.0	80.0	440.0	80.0	510.0	80.0	660.0	80.00
Copper	ug/L	120.0	20.0	110.0	20.0	94.0	20.0	270.0	20.0	240.0	20.0	20.0	20.00	ND	20.0	470.0	20.0	660.0	20.0	1600.0	20.00
Lead	ug/L	ND	200.0	ND	200.0	ND	200.0	300.0	200.0	ND	200.0	730.0	200.00	750.0	200.0	450.0	200.0	640.0	200.0	2500.0	200.00
Molybdenum	ug/L	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.00	ND	80.0	ND	80.0	ND	80.0	ND	80.00
Nickel	ug/L	310.0	80.0	320.0	80.0	240.0	80.0	590.0	80.0	390.0	80.0	2500.0	80.00	800.0	80.0	1200.0	80.0	1500.0	80.0	2300.0	80.00
Selenium	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.00	ND	200.0	ND	200.0	ND	200.0	ND	200.00
Silver	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.00	ND	20.0	ND	20.0	ND	20.0	ND	20.00
Thallium	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	230.0	200.0	660.0	200.00	680.0	200.0	250.0	200.0	350.0	200.0	510.0	200.00
Vanadium	ug/L	170.00	80.0	150.0	80.0	120.0	80.0	400.0	80.0	320.0	80.0	570.0	80.00	360.0	80.0	360.0	80.0	440.0	80.0	750.0	80.00
Zinc	ug/L	1700.00	20.0	1700.0	20.0	1400.0	20.0	3300.0	20.0	1500.0	20.0	11000.0	20.00	3400.0	20.0	1700.0	20.0	2400.0	20.0	9000.0	20.00
Pesticides (EPA 8081)																					
Aldrin	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
alpha-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
beta-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
delta-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
gamma-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlordane (tech)	ug/Kg	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	200.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
4,4-DDD	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
4,4-DDE	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	3.0	16	2.0	6.6	2.0	11	2.0
4,4-DDT	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	6.0	19	6.0	7.7	6.0	ND	6.0
Dieldrin	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	4.0
Endosulfan I	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan II	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan sulfate	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Endrin	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endrin aldehyde	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Endrin ketone	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Heptachlor	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Heptachlor epoxide	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methoxychlor	ug/Kg	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	200.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Toxaphene	ug/Kg	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	800.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0

\*Lab missed hold time - Sample not analyzed  
File: ks12 Sample Results SC1Comps

2001 Sediment Removal Project -  
Analytical Data for Sediment Samples  
Composite Samples

		LosCoches01 (comp AB)		Matadero01 (comp ABCD)		Randol01 (comp A)		Ross01 (comp A)		Rucker01 (comp A)		Sierra01 (comp A)	
Analyte	units	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
Total Metals, TTLC													
Mercury	mg/Kg	0.0500	0.0046	0.0670	0.0036	1.800	0.018	0.0260	0.0036	0.0240	0.0041	0.0220	0.0036
Antimony	mg/Kg	ND	1.700	ND	1.800	1.800	1.700	ND	1.800	ND	1.800	ND	1.800
Arsenic	mg/Kg	7.200	3.400	6.200	3.600	8.600	3.400	7.200	3.600	8.100	3.600	ND	3.500
Barium	mg/Kg	98.000	4.200	92.000	4.500	83.000	4.300	79.000	4.500	110.000	4.500	55.000	4.400
Beryllium	mg/Kg	ND	0.420	ND	0.450	ND	0.430	ND	0.450	ND	0.450	ND	0.440
Cadmium	mg/Kg	0.510	0.510	ND	0.550	ND	0.510	0.540	0.540	ND	0.540	ND	0.530
Chromium	mg/Kg	27.000	5.100	51.000	5.500	350.000	5.100	45.000	5.400	34.000	5.400	370.000	5.300
Cobalt	mg/Kg	9.800	0.850	12.000	0.910	29.000	0.850	14.000	0.890	7.500	0.890	21.000	0.880
Copper	mg/Kg	13.000	1.700	20.000	1.800	22.000	1.700	20.000	1.800	17.000	1.800	12.000	1.800
Lead	mg/Kg	6.000	4.200	17.000	4.500	15.000	4.300	15.000	4.500	10.000	4.500	ND	4.400
Molybdenum	mg/Kg	ND	0.850	ND	0.910	ND	0.850	ND	0.890	ND	0.890	ND	0.880
Nickel	mg/Kg	43.000	0.850	53.000	0.910	410.000	0.850	68.000	0.890	27.000	0.890	540.000	0.880
Selenium	mg/Kg	ND	4.200	ND	4.500	ND	4.300	ND	4.500	ND	4.500	ND	4.400
Silver	mg/Kg	ND	1.300	ND	1.400	ND	1.300	ND	1.300	ND	1.300	ND	1.300
Thallium	mg/Kg	ND	1.500	ND	1.600	13.000	1.500	2.100	1.600	2.000	1.600	6.300	1.600
Vanadium	mg/Kg	27.000	1.300	40.000	1.400	45.000	1.300	51.000	1.300	28.000	1.300	22.000	1.300
Zinc	mg/Kg	34.000	5.900	64.000	6.400	90.000	6.000	100.000	6.200	40.000	6.200	43.000	6.200
Methyl Mercury, (EPA 1630 Modified)													
Methyl Mercury	ng/g	Not Analyzed		Not Analyzed		0.225	0.070	Not Analyzed		Not Analyzed		Not Analyzed	
Soluable Metals, STLC													
Mercury	ug/L	ND	1.00	ND	1.00	ND	1.00	ND	1.00	ND	1.0	ND	1.0
Antimony	ug/L	ND	200.00	ND	200.00	ND	200.00	ND	200.00	ND	200.0	ND	200.0
Arsenic	ug/L	350.0	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Barium	ug/L	7600.0	200.0	5900.0	200.0	6100.0	200.0	6000.0	200.0	11000.0	200.0	7200.0	200.0
Beryllium	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Cadmium	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	25.0	20.0
Chromium	ug/L	78.0	20.0	930.0	20.0	1800.0	20.0	610.0	20.0	73.0	20.0	230.0	20.0
Cobalt	ug/L	230.0	80.0	360.0	80.0	1300.0	80.0	340.0	80.0	540.0	80.0	190.0	80.0
Copper	ug/L	110.0	20.0	24.0	20.0	240.0	20.0	130.0	20.0	190.0	20.0	220.0	20.0
Lead	ug/L	ND	200.0	250.0	200.0	270.0	200.0	370.0	200.0	220.0	200.0	ND	200.0
Molybdenum	ug/L	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0
Nickel	ug/L	490.0	80.0	1100.0	80.0	6300.0	80.0	1300.0	80.0	450.0	80.0	950.0	80.0
Selenium	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Silver	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Thallium	ug/L	ND	200.0	690.0	200.0	870.0	200.0	330.0	200.0	ND	200.0	ND	200.0
Vanadium	ug/L	210.0	80.0	970.0	80.0	650.0	80.0	350.0	80.0	330.0	80.0	140.0	80.0
Zinc	ug/L	1400.0	20.0	4000.0	20.0	4900.0	20.0	4000.0	20.0	870.0	20.0	1700.0	20.0
Pesticides (EPA 8081)													
Aldrin	ug/Kg	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
alpha-BHC	ug/Kg	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
beta-BHC	ug/Kg	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
delta-BHC	ug/Kg	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
gamma-BHC	ug/Kg	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlordane (tech)	ug/Kg	ND	20.0	ND	200.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
4,4-DDD	ug/Kg	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
4,4-DDE	ug/Kg	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
4,4-DDT	ug/Kg	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Dieldrin	ug/Kg	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan I	ug/Kg	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan II	ug/Kg	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan sulfate	ug/Kg	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Endrin	ug/Kg	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endrin aldehyde	ug/Kg	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Endrin keytone	ug/Kg	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Heptachlor	ug/Kg	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Heptachlor epoxide	ug/Kg	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methoxychlor	ug/Kg	ND	20.0	ND	200.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Toxaphene	ug/Kg	ND	80.0	ND	800.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0

\*Lab missed hold time - Sample not analyzed  
File: ks\2001 Sample Results SC\Comps

**2001 Sediment Removal Project -  
Analytical Data for Sediment Samples  
Composite Samples**

		Adobe01A (comp A)		BerryM01 (comp ABC)		BerryM02 (comp ABC)		BerryCrop01 (comp ABC)		BerryPied01 (comp AB)		Calabazas01 (comp ABCD)		Calabazas02 (comp ABCD)		Calabazas03 (comp ABCD)		Calabazas04 (comp ABCD)		Calabazas05 (comp ABCD)	
Analyte	units	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
<b>PCBs (8082)</b>																					
PCB-1016	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1221	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1232	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1242	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1248	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1254	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1260	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1262	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1268	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
<b>Organophosphorous Comp. (EPA 8141)</b>																					
Azinphos-methyl	ug/Kg	Not Analyzed		ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40
Bolstar	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Chloropyrifos	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Coumaphos	ug/Kg	Not Analyzed		ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40
Demeton	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Diazanone	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Dichlorvos	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Disulfoton	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Ethion	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Ethoprop	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
EPN	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Fensulfothion	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Fenthion	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Malathion	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Merphos	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Mevinphos	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Monocrotophos	ug/Kg	Not Analyzed		ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40
Naled	ug/Kg	Not Analyzed		ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40
Parathion-ethyl	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Parathion-methyl	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Phorate	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Ronnel	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Stirophos	ug/Kg	Not Analyzed		ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40
Sulfotep	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Tokuthion (Prothiofos)	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Trichloronate	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
<b>PAHs (EPA 8310)</b>																					
Naphthalene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Acenaphthylene	ug/Kg	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500
Acenaphthene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Fluorene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Phenanthrene	ug/Kg	66.0	10	23	10	ND	10	ND	10	ND	10	40	10	170	10	30	10	19	10	47	10
Anthracene	ug/Kg	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	15	10	ND	10	ND	10	ND	10
Flouranthene	ug/Kg	180.0	20	98	20	ND	20	ND	20	ND	20	110	20	300	20	83	20	54	20	150	20
Pyrene	ug/Kg	140.0	10	76	10	ND	10	ND	10	ND	10	110	10	260	10	73	10	47	10	130	10
Benzo(a)anthracene	ug/Kg	56.0	10	28	10	ND	10	ND	10	ND	10	29	10	71	10	22	10	12	10	37	10
Chrysene	ug/Kg	85.0	10	59	10	ND	10	ND	10	ND	10	63	10	110	10	53	10	36	10	74	10
Benzo(b)fluoranthene	ug/Kg	80.0	20	64	20	26	20	ND	20	ND	20	75	20	91	20	60	20	38	20	100	20
Benzo(k)fluoranthene	ug/Kg	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	46	10	ND	10	ND	10	ND	10
Benzo(a)pyrene	ug/Kg	ND	10	ND	10	ND	10	ND	10	ND	10	55	10	96	10	45	10	25	10	ND	10
Dibenz(ah)anthracene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Benzo(ghi)perylene	ug/Kg	76.0	20	57	20	ND	20	ND	20	ND	20	76	20	84	20	49	20	24	20	70	20
Indeno(1,2,3-cd)pyrene	ug/Kg	90.0	20	ND	20	ND	20	ND	20	ND	20	49	20	62	20	51	20	40	20	ND	20
<b>Moisture Content (EPA 160.3)</b>																					
Moisture Content	%	42.0	0.10	27.0	0.10	9.7	0.10	4.2	0.10	2.9	0.10	87	0.10	83	0.10	89	0.10	92	0.10	76	0.10
<b>TEH-Kerosene/Diesel (DHS-LUFT)</b>																					
Kerosene C9-C18	mg/Kg	30	10	1.5	1.0	4.8	1.0	3.5	1.0	5.8	1.0	2.6	1.0	2.9	1.0	3.2	1.0	2.4	1.0	5.6	1.0
Diesel	mg/Kg	150.0	10	9.3	1.0	22.0	1.0	7.2	1.0	9.2	1.0	19.0	1.0	20.0	1.0	21.0	1.0	16.0	1.0	39.0	1.0

\*Lab missed hold time - Sample not analyzed  
File: ks12r Sample Results SC/Comps

**2001 Sediment Removal Project -  
Analytical Data for Sediment Samples  
Composite Samples**

		Calabazas06 (comp ABCD)		Calabazas07 (comp ABCD)		Calabazas08 (comp AB)		CaleraMil01 (comp A)		CaleraEsc01 (comp A)		Canoas01 (comp ABCD)		Coyote01 (comp A)		Guadalupe01 (comp ABCD)		Guadalupe02 (comp ABCD)		Guadalupe03 (comp AB)	
Analyte	units	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
<b>PCBs (8082)</b>																					
PCB-1016	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1221	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1232	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1242	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1248	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1254	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1260	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1262	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1268	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
<b>Organophosphorous Comp. (EPA 8141)</b>																					
Azinphos-methyl	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	ND	40	ND	40	ND	40
Bolstar	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Chloropyrifos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Coumaphos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	ND	40	ND	40	ND	40
Demeton	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Diazanion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Dichlorvos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Disulfoton	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Ethion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Ethoprop	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
EPN	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Fensulfothion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Fenthion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Malathion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Merphos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Mevinphos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Monocrotophos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	ND	40	ND	40	ND	40
Naled	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	ND	40	ND	40	ND	40
Parathion-ethyl	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Parathion-methyl	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Phorate	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Ronnel	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Stirophos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	ND	40	ND	40	ND	40
Sulfotep	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Tokuthion (Prothiofos)	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Trichloronate	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
<b>PAHs (EPA 8310)</b>																					
Naphthalene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Acenaphthylene	ug/Kg	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500
Acenaphthene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Fluorene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Phenanthrene	ug/Kg	39	10	16	10	ND	10	ND	10	ND	10	130	10	ND	10	33	10	120	10	150	10
Anthracene	ug/Kg	10	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	30	10	ND	10
Flouranthene	ug/Kg	200	20	38	20	ND	20	ND	20	ND	20	330	20	ND	20	66	20	270	20	390	20
Pyrene	ug/Kg	160	10	39	10	ND	10	ND	10	ND	10	290	10	15	10	77	10	290	10	350	10
Benzo(a)anthracene	ug/Kg	74	10	16	10	ND	10	ND	10	ND	10	94	10	ND	10	26	10	120	10	93	10
Chrysene	ug/Kg	100	10	23	10	ND	10	ND	10	ND	10	150	10	ND	10	42	10	150	10	180	10
Benzo(b)fluoranthene	ug/Kg	110	20	ND	20	ND	20	ND	20	ND	20	170	20	ND	20	38	20	100	20	220	20
Benzo(k)fluoranthene	ug/Kg	52	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	18	10	49	10	91	10
Benzo(a)pyrene	ug/Kg	120	10	22	10	ND	10	ND	10	ND	10	150	10	12	10	45	10	130	10	190	10
Dibenz(ah)anthracene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Benzo(ghi)perylene	ug/Kg	100	20	ND	20	ND	20	ND	20	ND	20	200	20	ND	20	49	20	110	20	250	20
Indeno(1,2,3-cd)pyrene	ug/Kg	86	20	ND	20	ND	20	ND	20	ND	20	47	20	ND	20	52	20	120	20	260	20
<b>Moisture Content (EPA 160.3)</b>																					
Moisture Content	%	87	0.10	90	0.10	94	0.10	28	0.10	18	0.10	27	0.10	20	0.10	8.7	0.10	16	0.10	12	0.10
<b>TEH-Kerosene/Diesel (DHS-LUFT)</b>																					
Kerosene C9-C18	mg/Kg	1.5	1.0	ND	1.0	ND	1.0	1.6	1.0	2.2	1.0	31	4.0	1.1	1.0	5.7	1.0	4.5	1.0	9.3	1.0
Diesel	mg/Kg	11.0	1.0	6.0	1.0	6.2	1.0	14.0	1.0	4.9	1.0	150.0	4.0	5.6	1.0	15.0	1.0	21.0	1.0	47.0	1.0

\*Lab missed hold time - Sample not analyzed  
File: ks\2001 Sample Results SC\Comps



2001 Sediment Removal Project -  
Analytical Data for Sediment Samples  
Composite Samples

		LosCoches01 (comp AB)		Matadero01 (comp ABCD)		Randol01 (comp A)		Ross01 (comp A)		Rucker01 (comp A)		Sierra01 (comp A)	
Analyte	units	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
<b>PCBs (8082)</b>													
PCB-1016	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1221	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1232	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1242	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1248	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1254	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1260	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1262	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1268	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
<b>Organophosphorous Comp. (EPA 8141)</b>													
Azinphos-methyl	ug/Kg	ND	40	Not Analyzed		Not Analyzed		Not Analyzed		ND	40	ND	40
Bolstar	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Chlorpyrifos	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Coumaphos	ug/Kg	ND	40	Not Analyzed		Not Analyzed		Not Analyzed		ND	40	ND	40
Demeton	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Diazanone	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Dichlorvos	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Disulfoton	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Ethion	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Ethoprop	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
EPN	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Fensulfothion	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Fenthion	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Malathion	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Merphos	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Mevinphos	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Monocrotophos	ug/Kg	ND	40	Not Analyzed		Not Analyzed		Not Analyzed		ND	40	ND	40
Naled	ug/Kg	ND	40	Not Analyzed		Not Analyzed		Not Analyzed		ND	40	ND	40
Parathion-ethyl	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Parathion-methyl	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Phorate	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Ronnel	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Stirophos	ug/Kg	ND	40	Not Analyzed		Not Analyzed		Not Analyzed		ND	40	ND	40
Sulfotep	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Tokuthion (Prothiofos)	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Trichloronate	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
<b>PAHs (EPA 8310)</b>													
Naphthalene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Acenaphthylene	ug/Kg	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500
Acenaphthene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Fluorene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Phenanthrene	ug/Kg	ND	10	310	10	ND	10	ND	10	ND	10	ND	10
Anthracene	ug/Kg	ND	10	32	10	ND	10	ND	10	ND	10	ND	10
Flouranthene	ug/Kg	ND	20	770	20	ND	20	ND	20	ND	20	ND	20
Pyrene	ug/Kg	ND	10	650	20	ND	10	ND	10	ND	10	ND	10
Benzo(a)anthracene	ug/Kg	ND	10	200	10	ND	10	ND	10	ND	10	ND	10
Chrysene	ug/Kg	ND	10	360	10	ND	10	ND	10	ND	10	ND	10
Benzo(b)fluoranthene	ug/Kg	ND	20	360	20	ND	20	ND	20	ND	20	ND	20
Benzo(k)fluoranthene	ug/Kg	ND	10	230	10	ND	10	ND	10	ND	10	ND	10
Benzo(a)pyrene	ug/Kg	ND	10	430	20	ND	10	19	10	ND	10	ND	10
Dibenz(ah)anthracene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Benzo(ghi)perylene	ug/Kg	ND	20	270	20	ND	20	ND	20	ND	20	ND	20
Indeno(1,2,3-cd)pyrene	ug/Kg	ND	20	250	20	ND	20	ND	20	ND	20	ND	20
<b>Moisture Content (EPA 160.3)</b>													
Moisture Content	%	20	0.10	31	0.10	18	0.10	7.1	0.10	16	0.10	20	0.10
<b>TEH-Kerosene/Diesel (DHS-LUFT)</b>													
Kerosene C9-C18	mg/Kg	3.4	1.0	4.2	1.0	2.6	1.0	ND	1.0	1.1	1.0	1.1	1.0
Diesel	mg/Kg	10.0	1.0	37.0	1.0	11.0	1.0	3.6	1.0	2.7	1.0	5.5	1.0

\*Lab missed hold time - Sample not analyzed  
File: ks\2001 Sample Results SC\Comps

2001 Sediment Removal Project -  
Analytical Data for Sediment Samples  
Composite Samples

		Adobe01A (comp A)		BerryMil01 (comp ABC)		BerryMil02 (comp ABC)		BerryCrop01 (comp ABC)		BerryPied01 (comp AB)		Calabazas01 (comp ABCD)		Calabazas02 (comp ABCD)		Calabazas03 (comp ABCD)		Calabazas04 (comp ABCD)		Calabazas05 (comp ABCD)	
Analyte	units	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
<b>Total Organic Carbon (EPA 415.2)</b>																					
Total Organic Carbon	mg/Kg	18000	200	7600	200	2300	200	ND	200	2000	200	13000	200	12000	200	10000	200	6800	200	10000	200
<b>Chloride (EPA 325.2)</b>																					
Chloride	mg/Kg	35.0	1.0	230.0	10	110.0	10	Not Analyzed		Not Analyzed		120	10	150	10	92	10	120	10	130	10
<b>pH (EPA 9045C)</b>																					
pH		7.70	0.200	7.93	0.200	8.98	0.200	8.70	0.200	8.08	0.200	8.10	0.200	8.10	0.200	8.15	0.200	8.12	0.200	7.80	0.200
<b>Sulfide</b>																					
	mg/Kg	64	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
<b>Ammonia (EPA 350.1)</b>																					
	mg/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
<b>Chlorinated Herbicides (EPA 8151)</b>																					
2,4-D	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4-DB	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-T	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-TP (Silvex)	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dalapon	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dicamba	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dichlorprop	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dinoseb	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCPA	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCP	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
<b>Herbicides (Various)</b>																					
Rodeo, Roundup	ug/g	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
AMPA		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Gallery		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Surflan		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Telar		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Pendulum		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	



2001 Sediment Removal Project -  
Analytical Data for Sediment Samples  
Composite Samples

		Calabazas06 (comp ABCD)		Calabazas07 (comp ABCD)		Calabazas08 (comp AB)		CaleraMil01 (comp A)		CaleraEsc01 (comp A)		Canoas01 (comp ABCD)		Coyote01 (comp A)		Guadalupe01 (comp ABCD)		Guadalupe02 (comp ABCD)		Guadalupe03 (comp AB)	
Analyte	units	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
Total Organic Carbon (EPA 415.2)																					
Total Organic Carbon	mg/Kg	2200	200	2500	200	2500	200	*		13000	200	22000	200	12000	200	9100	200	9500	200	23000	200
Chloride (EPA 325.2)																					
Chloride	mg/Kg	200	10	130	10	79	10	Not Analyzed		Not Analyzed		Not Analyzed		41	1.0	180	10	170	10	7.1	1.0
pH (EPA 9045C)																					
		8.51	0.200	9.21	0.200	9.34	0.200	8.18	0.200	8.38	0.200	7.92	0.200	8.38	0.200	8.17	0.200	7.98	0.200	7.90	0.200
Sulfide																					
	mg/Kg	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Ammonia (EPA 350.1)																					
	mg/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	21	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Chlorinated Herbicides (EPA 8151)																					
2,4-D	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4-DB	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-T	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-TP (Silvex)	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dalapon	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dicamba	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dichlorprop	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dinoseb	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCPA	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCPP	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Herbicides (Various)																					
Rodeo, Roundup	ug/g	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
AMPA		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Gallery		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Surflan		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Telar		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Pendulum		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	

2001 Sediment      noval Project -  
Analytical Data for Sediment Samples  
Composite Samples

		LosCoches01 (comp AB)		Matadero01 (comp ABCD)		Randol01 (comp A)		Ross01 (comp A)		Rucker01 (comp A)		Sierra01 (comp A)	
Analyte	units	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
Total Organic Carbon (EPA 415.2)													
Total Organic Carbon	mg/Kg	2300	200	13000	200	9300	200	1600	200	4000	200	2000	200
Chloride (EPA 325.2)													
Chloride	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
pH (EPA 9045C)													
		8.08	0.200	7.63	0.200	8.17	0.200	8.46	0.200	7.93	0.200	8.45	0.200
Sulfide													
	mg/Kg	ND	10	ND	10	160	10	ND	10	ND	10	ND	10
Ammonia (EPA 350.1)													
	mg/Kg	ND	2.0	10	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Chlorinated Herbicides (EPA 8151)													
2,4-D	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4-DB	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-T	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-TP (Silvex)	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dalapon	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dicamba	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dichlorprop	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dinoseb	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCPA	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCP	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Herbicides (Various)													
Rodeo, Roundup	ug/g	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
AMPA		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Gallery		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Surflan		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Telar		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Pendulum		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	

# **Toxicity Evaluation of Estuarine/Marine Sediments**

**(Samples Collected June 7-12, 2001)**

**Prepared For:**

**Sequoia Analytical  
885 Jarvis Dr.  
Morgan Hill, CA 95037**

**Prepared By:**

**Pacific EcoRisk  
835 Arnold Dr., Suite 104  
Martinez, CA 94553**

**July, 2001**

### 3.0 RESULTS

#### 3.1 BULK SEDIMENT TOXICITY TO *Eohaustorius estuarius*

The percent survival data for the amphipod *Eohaustorius estuarius* exposed to the estuarine/marine sediments for 10 days are summarized below in Table 2. Briefly, there was 96% amphipod survival at the "Home" Control treatment, indicating an acceptable survival response by the test organisms. All of the samples, with the exception of MKF0118-02, MKF0118-03, MKF0274-06, MKF0287-02 exhibited reductions in the mean % amphipod survival that were statistically less than the Control treatment; however, only site sediments MKF0191-03 and MKF0191-04 were >20% less than the "home" Control sediment with respect to survival. Copies of the test data sheets and the summaries of statistical analyses are attached as Appendix B.

Table 2. Effects of Sequoia Analytical sediments on the survival of *Eohaustorius estuarius*

Sample Station I.D.	% Survival					
	Rep A	Rep B	Rep C	Rep D	Rep E	Mean
"Home" Control	100	100	90	100	90	96
MKF0118-01	75	75	85	85	85	81*
MKF0118-02	90	100	95	85	95	93
MKF0118-03	90	100	90	85	90	91
MKF0191-01	85	70	85	90	85	83*
MKF0191-02	100	85	80	90	80	87*
MKF0191-03	75	80	65	70	75	73*
MKF0191-04	75	70	65	65	60	67*
MKF0274-01	60	85	90	85	75	79*
MKF0274-02	95	85	70	75	70	79*
MKF0274-03	80	75	85	75	65	76*
MKF0274-04	85	70	75	80	80	78*
MKF0274-05	75	85	90	80	80	82*
MKF0274-06	95	80	80	90	95	88
MKF0274-10	70	85	85	70	75	77*
MKF0287-01	85	90	80	90	80	85*
MKF0287-02	75	100	90	85	85	87

\* - Statistically significantly less than the Control at  $p < 0.05$ .

### 3.1.2 Amphipod Reference Toxicant Test Results

The results of the cadmium reference toxicant toxicity test are summarized in Table 3. Briefly, there was 100% survival at the Control treatment, and not less than 90% survival up through the 1.5 mg/L cadmium treatment. Amphipod survival was reduced to 50% at the 3 mg/L treatment, which was significantly less than the Control. The resulting EC50 value was 3.8 mg/L.

Test data & the summary of statistical analyses for this test are attached as Appendix C.

Table 3. Reference Toxicant Testing: Effects of Cadmium on Survival of <i>Eohaustorius estuarius</i>			
Nominal Cadmium Concentrations (mg/L)	% Survival of Amphipods		
	Rep A	Rep B	Mean
Control	100	100	100
0.75	100	90	95
1.5	90	90	90
3	50	50	50 *
6	60	40	50 *
9	10	0	5*
EC50 = 3.8 mg/L cadmium			

\* - Significantly less than the Control at  $p < 0.05$ .

The current reference toxicant test EC50 of 3.8 mg/L is well within the “acceptability” range of our in house reference toxicant test data base (“mean  $\pm$  2 S.D.”) of 1.4-8.0 mg/L, indicating that these amphipods were responding to toxicant stress in a consistent and typical fashion.

## 4.0 SUMMARY

The results of these tests indicated that some of the sediments may be significantly toxic to benthic organisms.

However, it is recognized that even optimal “ambient” sediments in the San Francisco Basin may exhibit some degree of impairment relative to truly pristine locations (such as where the “Home” Control sediments were collected). As a result, it is being recommended that comparison of amphipod toxicity test results for sediments collected from the San Francisco Bay Basin be compared to a “reference envelope” representing the characteristic response that might be expected from San Francisco Bay reference ambient sediments (CA SWRCB 1998). In addition, for dredge materials testing under the U.S. Army Corp of Engineers guidelines, it is recommended that for a sample to be considered toxic, the test sediment must be both statistically significantly different and 20% greater

with respect to amphipod mortality relative to the reference sediment (or Control sediment in this case).

An alternative recommended approach is the use of the "detectable difference" approach (Thursby et al. 1997; CA SWRCB 1998). The detectable difference is the difference from the Control that a given protocol is capable of detecting as statistically significant in 90% of samples tested. The Bay Protection and Toxic Cleanup Program has established a 90th percentile Minimum Significant Difference (MSD) of 75% of the Control for the *Eohaustorius estuarius* sediment toxicity test. Using this approach, it would be concluded only site sediment MKF0191-04 would be considered significantly toxic.

#### 4.1 QA/QC SUMMARY

**Test Conditions** - All test conditions (pH, D.O., temperature, etc.) were within acceptable limits for the test organisms. All such analyses were performed according the laboratory Standard Operating Procedures.

**Negative Control** - The survival response for the test organisms at the "Home" Control treatment was within acceptable limits.

**Positive Control** - The results of the reference toxicant tests that was performed concurrently with the sediment tests was consistent with the historical database of tests performed previously by this laboratory, indicating that these test organisms were responding to toxic stress in a typical fashion.

### 5. LITERATURE CITED

CA SWRCB (1998) Evaluation and Use of Sediment Reference Sites and Toxicity Tests in San Francisco Bay. Final Report. CA State Water Resources Control Board, Sacramento, CA.

Knezovich JP, Steichen DJ, Jelinski J, Anderson SL (1996) Sulfide tolerance of four species used to evaluate sediment and porewater toxicity. Bulletin Environmental Contamination Toxicology 57:450-457.

Thursby GB, Heltshe J, Scott KJ (1997) Revised approach to toxicity test acceptability criteria using a statistical performance assessment. Env Toxicol Chem 16:1322-1329.

US EPA (1994) "Methods for Assessing the Toxicity of Sediment-Associated Contaminants with Estuarine and Marine Amphipods", EPA-600/R-94/025. U.S. EPA, Env. Research Laboratory, Narragansett,

# **Toxicity Evaluation of Estuarine/Marine Sediments**

**(Samples Collected June 3, 2001)**

**Prepared For:**

**Sequoia Analytical  
885 Jarvis Dr.  
Morgan Hill, CA 95037**

**Prepared By:**

**Pacific EcoRisk  
835 Arnold Dr., Suite 104  
Martinez, CA 94553**

**July 2001**

## 3.0 RESULTS

3.1 BULK SEDIMENT TOXICITY TO *Eohaustorius estuarius*

The percent survival data for the amphipod *Eohaustorius estuarius* exposed to the estuarine/marine sediments for 10 days are summarized below in Table 2. Briefly, there was 100% amphipod survival at the "Home" Control treatment, indicating an acceptable survival response by the test organisms. All of the samples, with the exception of MKF0033-24, exhibited reductions in the mean % amphipod survival that were statistically less than the Control treatment; however, none of the samples were >20% different from the "home" Control sediment with respect to survival.

Copies of the test data sheets and the summaries of statistical analyses are attached as Appendix B.

Table 2. Effects of Sequoia Analytical sediments on the survival of *Eohaustorius estuarius*

Sample Station I.D.	% Survival					
	Rep A	Rep B	Rep C	Rep D	Rep E	Mean
"Home" Control	100	100	100	100	100	100
MKF0033-13	85	95	95	85	95	91*
MKF0033-14	**	85	85	75	95	85*
MKF0033-19	90	85	95	60	85	83*
MKF0033-21	75	90	90	90	95	88*
MKF0033-22	75	100	80	80	90	85*
MKF0033-24	85	90	95	100	100	94
MKF0033-26	85	85	100	90	90	90*

\* - Statistically significantly less than the Control at  $p < 0.05$ .

\*\* - Considered and outlier and is not used in statistical analysis.

01 Calabazas  
03  
02  
01  
CC03  
CC01  
CC02  
CC04



### 3.1.2 Amphipod Reference Toxicant Test Results

The results of the cadmium reference toxicant toxicity test are summarized in Table 3. Briefly, there was 100% survival at the Control treatment, and not less than 90% survival up through the 1.5 mg/L cadmium treatment. Amphipod survival was reduced to 55% at the 3 mg/L treatment, which was significantly less than the Control. The resulting EC50 value was 4.2 mg/L.

Test data & the summary of statistical analyses for this test are attached as Appendix C.

Table 3. Reference Toxicant Testing: Effects of Cadmium on Survival of <i>Eohaustorius estuarius</i>			
Nominal Cadmium Concentrations (mg/L)	% Survival of Amphipods		
	Rep A	Rep B	Mean
Control	100	100	100
0.75	100	100	100
1.5	100	80	90
3	60	50	55 *
6	20	20	20 *
9	50	20	35 *
EC50 = 4.2 mg/L cadmium			

\* - Significantly less than the Control at  $p < 0.05$ .

The current reference toxicant test EC50 of 4.2 mg/L is well within the “acceptability” range of our in house reference toxicant test data base (“mean  $\pm$  2 S.D.”) of 1.4-8.0 mg/L, indicating that these amphipods were responding to toxicant stress in a consistent and typical fashion.

## 4.0 SUMMARY

The results of these tests indicated that some of the sediments may be significantly toxic to benthic organisms.

However, it is recognized that even optimal “ambient” sediments in the San Francisco Basin may exhibit some degree of impairment relative to truly pristine locations (such as where the “Home” Control sediments were collected). As a result, it is being recommended that comparison of amphipod toxicity test results for sediments collected from the San Francisco Bay Basin be compared to a “reference envelope” representing the characteristic response that might be expected from San Francisco Bay reference ambient sediments (CA SWRCB 1998). In addition, for dredge materials testing under the U.S. Army Corp of Engineers guidelines, it is recommended that for a sample to be considered toxic, the test sediment must be both statistically significantly different and 20% greater with respect to amphipod mortality relative to the reference sediment (or Control sediment in this case).

An alternative recommended approach is the use of the “detectable difference” approach (Thursby et al. 1997; CA SWRCB 1998). The detectable difference is the difference from the Control that a given protocol is capable of detecting as statistically significant in 90% of samples tested. The Bay Protection and Toxic Cleanup Program has established a 90th percentile Minimum Significant Difference (MSD) of 75% of the Control for the *Eohaustorius estuarius* sediment toxicity test. Using this approach, it would be concluded that none of the sediments are significantly toxic.

#### 4.1 QA/QC SUMMARY

**Test Conditions** - All test conditions (pH, D.O., temperature, etc.) were within acceptable limits for the test organisms. All such analyses were performed according the laboratory Standard Operating Procedures.

**Negative Control** - The survival response for the test organisms at the “Home” Control treatment was within acceptable limits.

**Positive Control** - The results of the reference toxicant tests that was performed concurrently with the sediment tests was consistent with the historical database of tests performed previously by this laboratory, indicating that these test organisms were responding to toxic stress in a typical fashion.

## **APPENDIX D**

# Test Report - Sequoia Analytical - Morgan Hill

## Polarized Light Microscopy Analysis Results

### Project AOC106177

-----Asbestos-----										-----Nonasbestos-----						
Sample Number / Sample Appearance	Client Sample Number	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date	Analyst	
1741088CPL Brown soil	MKF0118-01 01 Adobe 01	-	-	-	-	-	-	<1 %	-	<1 %	-	-	99+ %	6/12/01	SSY	
NFM: Qtz, Carb, Binder, Opaq, Misc. Part.															Homogeneous	
1741089CPL Brown soil	MKF0118-02 01 Duplicate 01	-	-	-	-	-	-	<1 %	-	<1 %	-	-	99+ %	6/12/01	SSY	
NFM: Qtz, Clay, Carb, Binder, Opaq, Fine Grains, Misc. Part.															Homogeneous	
1741090CPL Brown soil	MKF0118-03 01 Adobe CCO1	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/12/01	SSY	
NFM: Qtz, Clay, Carb, Binder, Opaq, Fine Grains, Misc. Part.															Homogeneous	

Samples received on: Tuesday, June 12, 2001

RJ Lee Group, Inc.  
Bay Area Lab

530 McCormick Street  
San Leandro, CA 94577

Page: 1 of 1

Authorized Signature

Date



Adam Fink, Geologist  
Monday, June 18, 2001

Phone (510) 567-0480  
Fax (510) 567-0488

# Test Report - Sequoia Analytical - Morgan Hill

## Polarized Light Microscopy Analysis Results

### Project AOC106259



Sequoia Analytical

		-----Asbestos-----										-----Nonasbestos-----				Run Date
Sample Number /	Sample Appearance	Client Sample Number	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Wool	Glass	Fibers	Synthetic	Other	NonFibrous	Material
1741179CPL	Brown soil	MKF0268-01	-	-	-	-	-	-	<1 %	-	-	-	-	-	99+ %	6/20/01
		01 Berry Pied 01														NFM: Qtz, Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains ACF Homogeneous
1741180CPL	Brown soil	MKF0268-02	-	-	-	-	-	-	<1 %	-	-	-	-	-	99+ %	6/20/01
		01 Berry Pied C01														NFM: Qtz., Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grain ACF Homogeneous
1741181CPL	Brown soil	MKF0268-04	-	-	-	-	-	-	<1 %	-	-	-	-	-	99+ %	6/20/01
		01 Duplicate 02														NFM: Qtz, Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains ACF Homogeneous
1741182CPL	Brown soil	MKF0268-05	-	-	-	-	-	-	<1 %	-	-	-	-	-	99+ %	6/20/01
		01 Berry Crop 01														NFM: Qtz, Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains ACF Homogeneous
1741183CPL	Brown soil	MKF0268-06	-	-	-	-	-	-	<1 %	-	-	-	-	-	99+ %	6/20/01
		01 Berry Crop C01														NFM: Qtz, Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains ACF Homogeneous

Samples received on: Friday, June 15, 2001

Authorized Signature

Adam Fink, Geologist  
Thursday, June 21, 2001

Date

RJ Lee Group, Inc.  
Bay Area Lab

530 McCormick Street  
San Leandro, CA 94577

Page: 1 of 1

Phone (510) 567-0480  
Fax (510) 567-0488

885 Jarvis Drive  
Morgan Hill, CA 95037  
(408) 776-9600  
FAX (408) 782-6308  
www.sequoiabs.com

# Test Report - Sequoia Analytical - Morgan Hill

## Polarized Light Microscopy Analysis Results

### Project AOC106266



		-----Asbestos-----										-----Nonasbestos-----					Analytical Technique	Run Date Analysis
Sample Number / Sample Appearance	Client Sample Number	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Wool	Mineral Glass	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material				
1741154CPL Tan soil	MKF0191-01 01 Berry mil 01	-	-	-	-	-	-	-	-	-	-	-	-	100 % Fine Grains Homogeneous	6/20/01 ACF			
1741155CPL Tan soil	MKF0191-02 01 Berry mil 02	-	-	-	-	-	-	<1 %	-	-	-	-	-	99+ % Fine Grains Homogeneous	6/20/01 ACF			
1741156CPL Tan soil	MKF0191-04 01 Berry mil CCO2	-	-	-	-	-	-	<1 %	-	-	-	-	-	99+ % Fine Grains Homogeneous	6/20/01 ACF			

Samples received on: Friday, June 15, 2001

RJ Lee Group, Inc.  
Bay Area Lab

530 McCormick Street  
San Leandro, CA 94577  
Page: 1 of 1

Authorized Signature

Date

Adam Fink, Geologist  
Thursday, June 21, 2001

Phone (510) 567-0480  
Fax (510) 567-0488

885 Jarvis Drive  
Morgan Hill, CA 95037  
(408) 776-9600  
FAX (408) 782-6308  
www.sequoialabs.com

Sequoia Analytical

# Test Report - Sequoia Analytical - Morgan Hill

## Polarized Light Microscopy Analysis Results

### Project AOC106101

-----Asbestos-----										-----Nonasbestos-----					
Sample Number / Sample Appearance	Client Sample Number	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date	Analyst
1740457CPL Brown soil	MKF0033-01 01 Calabazas 06	-	-	-	-	-	-	-	-	-	-	-	100 %	6/7/01	SSY
NFM: Qtz, Carb, Binder, Opaq, Fine Grains, Misc. Part.													Homogeneous		
1740458CPL Brown soil	MKF0033-04 01 Calabazas 07	-	-	-	-	-	-	-	-	-	-	-	100 %	6/7/01	SSY
NFM: Qtz, Binder, Opaq, Fine Grains, Misc. Part.													Homogeneous		
1740459CPL Brown soil	MKF0033-05 01 Calabazas 08	-	-	-	-	-	-	-	-	-	-	-	100 %	6/7/01	SSY
NFM: Qtz, Binder, Opaq, Fine Grains, Misc. Part.													Homogeneous		
1740460CPL Brown soil	MKF0033-08 01 Calabazas 05	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/7/01	SSY
NFM: Qtz, Carb, Binder, Opaq, Fine Grains, Misc. Part.													Homogeneous		
1740461CPL Brown soil	MKF0033-12 01 Calabazas 04	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/7/01	SSY
NFM: Qtz, Carb, Binder, Opaq, Fine Grains, Misc. Part.													Homogeneous		
1740462CPL Brown soil	MKF0033-13 01 Calabazas 03	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/7/01	SSY
NFM: Qtz, Carb, Binder, Opaq, Fine Grains, Misc. Part.													Homogeneous		

Samples received on: Thursday, June 7, 2001

RJ Lee Group, Inc.  
Bay Area Lab

530 McCormick Street  
San Leandro, CA 94577

Page: 1 of 2

Authorized Signature

Date

Stephen S. Yata, Geologist  
Monday, June 11, 2001

Phone (510) 567-0480  
Fax (510) 567-0488

# Test Report - Sequoia Analytical - Morgan Hill

## Polarized Light Microscopy Analysis Results

### Project AOC106101

-----Asbestos-----										-----Nonasbestos-----				
Sample Number / Sample Appearance	Client Sample Number	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date Analyst
1740463CPL Brown soil	MKF0033-14 01 Calabazas 02	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/7/01 SSY Homogeneous
NFM: Qtz, Carb, Binder, Opaq, Fine Grains, Misc. Part.														
1740464CPL Brown soil	MKF0033-17 01 Calabazas CC03	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/7/01 SSY Homogeneous
NFM: Qtz, Carb, Binder, Opaq, Fine Grains, Misc. Part.														
1740465CPL Brown soil	MKF0033-19 01 Calabazas 01	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/7/01 SSY Homogeneous
NFM: Qtz, Carb, Binder, Opaq, Fine Grains, Misc. Part.														

Samples received on: Thursday, June 7, 2001

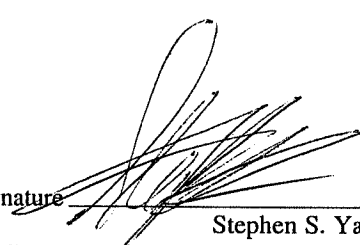
**RJ Lee Group, Inc.**  
Bay Area Lab

530 McCormick Street  
San Leandro, CA 94577

Page: 2 of 2

Authorized Signature

Date

  
Stephen S. Yata, Geologist  
Monday, June 11, 2001

Phone (510) 567-0480  
Fax (510) 567-0488



# Test Report - Sequoia Analytical - Morgan Hill

## Polarized Light Microscopy Analysis Results

### Project AOC106174

-----Asbestos-----Nonasbestos-----														
Sample Number / Sample Appearance	Client Sample Number	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date Analyst
1741084CPL Brown soil	MKF0202-01 01 Calera Esc 01	-	-	-	-	-	-	-	-	-	-	-	100 %	6/12/01 SSY
NFM: Qtz, Clay, Carb, Binder, Opaq, Fine Grains, Misc. Part.														
Homogeneous														
1741085CPL Brown soil	MKF0202-02 01 Calera Esc CCO1	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/12/01 SSY
NFM: Qtz, Clay, Carb, Binder, Opaq, Fine Grains, Misc. Part.														
Homogeneous														

Samples received on: Tuesday, June 12, 2001

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Bay Area Lab

530 McCormick Street  
San Leandro, CA 94577

Page: 1 of 1

Authorized Signature



Adam Fink, Geologist  
Monday, June 18, 2001

Date

Phone (510) 567-0480  
Fax (510) 567-0488

# Test Report - Sequoia Analytical - Morgan Hill

## Polarized Light Microscopy Analysis Results

### Project AOC106175

-----Asbestos-----										-----Nonasbestos-----						
Sample Number /	Sample Appearance	Client Sample Number	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date	Analyst
1741086CPL	Brown soil	MKF0199-01	-	-	-	-	-	-	-	-	-	-	-	100 %	6/12/01	
										NFM: Qtz, Clay, Carb, Binder, Opaq, Fine Grains, Misc. Part.						
														Homogeneous		
1741087CPL	Brown soil	MKF0199-02	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/12/01	
										NFM: Qtz, Clay, Carb, Binder, Opaq, Fine Grains, Misc. Part.						
														Homogeneous		

Samples received on: Tuesday, June 12, 2001


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530 McCormick Street  
San Leandro, CA 94577

Page: 1 of 1

Authorized Signature

Date

  
Stephen S. Yata, Geologist  
Monday, June 18, 2001

Phone (510) 567-0480  
Fax (510) 567-0488

# Test Report - Sequoia Analytical - Morgan Hill

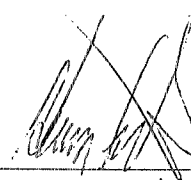
## Polarized Light Microscopy Analysis Results

### Project AOC106265

-----Asbestos-----										-----Nonasbestos-----					Run Date
Sample Number /	Client Sample Number	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Wool	Mineral	Fibrous	Synthetic	Other	NonFibrous	
Sample Appearance										Glass	Fibers	Fibers	Fibers	Material	Analyst
1741157CPL	MKF0272-01	-	-	-	-	-	-	<1 %	-	-	-	-	-	99+ %	6/20/01
Brown soil	01 Canoas 01														
NFM: Qtz, Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains ACF															Homogeneous
1741158CPL	MKF0272-02	-	-	-	-	-	-	<1 %	-	-	-	-	-	99+ %	6/20/01
Brown soil	01 Canoas CCO1														
NFM: Qtz, Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains ACF															Homogeneous

Samples received on: Friday, June 15, 2001

Authorized Signature



Adam Fink, Geologist

Date

Thursday, June 21, 2001

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Bay Area Lab

530 McCormick Street  
San Leandro, CA 94577  
Page: 1 of 1

Phone (510) 567-0480  
Fax (510) 567-0488

# Test Report - Sequoia Analytical - Morgan Hill

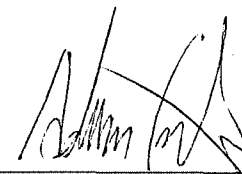
## Polarized Light Microscopy Analysis Results

### Project AOC106264

-----Asbestos-----														-----Nonasbestos-----			
Sample Number / Sample Appearance	Client Sample Number	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Wool	Mineral Glass	Fibrous Fibers	Synthetic Fibers	Other Material	NonFibrous Analyst	Run Date		
1741159CPL Black soil	MKF0287-01 01 coyote 01	-	-	-	-	-	-	<1 %	-	-	-	-	-	99+ %	6/20/01		
NFM: Qtz, Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains ACF Homogeneous																	
1741160CPL Black soil	MKF0287-02 01 coyote cco1	-	-	-	-	-	-	<1 %	-	-	-	-	-	99+ %	6/20/01		
NFM: Qtz, Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains ACF Homogeneous																	

Samples received on: Friday, June 15, 2001

Authorized Signature



Adam Fink, Geologist

Date

Thursday, June 21, 2001

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Bay Area Lab

530 McCormick Street  
San Leandro, CA 94577

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Phone (510) 567-0480  
Fax (510) 567-0488

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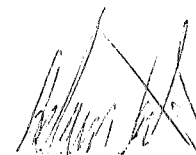
## Polarized Light Microscopy Analysis Results

### Project AOC106336

-----Asbestos-----										-----Nonasbestos-----				Run Date
Sample Number /	Client Sample Number	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Wool	Mineral	Fibrous	Synthetic	Other	
Sample Appearance										Glass	Fibers	Fibers	Material	Analyst
1741387CPL	MKF0299-01	-	-	-	-	-	-	3 %	-	-	-	-	-	97 % 6/26/01
Brown soil	01 Flint + cc 01	NFM: Qtz, Carb, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains, Misc. Part. ACF										Homogeneous		

Samples received on: Wednesday, June 20, 2001

Authorized Signature



Adam Fink, Geologist

Date

Wednesday, June 27, 2001

RJ Lee Group, Inc.  
Bay Area Lab

530 McCormick Street  
San Leandro, CA 94577

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Fax (510) 567-0488

# Test Report - Sequoia Analytical - Morgan Hill

## Polarized Light Microscopy Analysis Results

### Project AOC106258

-----Asbestos-----

-----Nonasbestos-----

Sample Number / Sample Appearance	Client Sample Number	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Wool	Mineral Glass	Fibrous Fibers	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date	Analyst
1741184CPL Brown soil	MKF0274-01 01 Guadalupe 01	-	-	-	-	-	-	5 %	-	-	-	-	-	95 %	6/20/01	
NFM: Qtz, Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains ACF Homogeneous																
1741185CPL Brown soil	MKF0274-02 01 Guadalupe 02	-	-	-	-	-	-	-	-	-	-	-	-	100 %	6/20/01	
NFM: Qtz, Clay, Carb, Binder, Hbl, F-Spar, Opaq, Mica, Fine Grains, Misc. Pt ACF Homogeneous																
1741186CPL Brown soil	MKF0274-03 01 Guadalupe 03	-	-	-	-	-	-	2 %	-	-	-	-	-	98 %	6/20/01	
NFM: Qtz, Clay, Carb, Binder, Opaq, Mica, Fine Grains, Misc. Part. ACF Homogeneous																
1741187CPL Brown soil	MKF0274-06 01 Guadalupe CC03	-	-	-	-	-	-	5 %	-	-	-	-	-	95 %	6/20/01	
NFM: Qtz, Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains ACF Homogeneous																
1741188CPL Brown soil	MKF0274-10 01 Duplicate 05	-	-	-	-	-	-	5 %	-	-	-	-	-	95 %	6/20/01	
NFM: Qtz, Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains ACF Homogeneous																

Samples received on: Friday, June 15, 2001

Authorized Signature



Adam Fink, Geologist  
Thursday, June 21, 2001

Date

**RJ Lee Group, Inc.**  
Bay Area Lab

530 McCormick Street  
San Leandro, CA 94577

Page: 1 of 1

Phone (510) 567-0480  
Fax (510) 567-0488

# Test Report - Sequoia Analytical - Morgan Hill

## Polarized Light Microscopy Analysis Results

### Project AOC106267

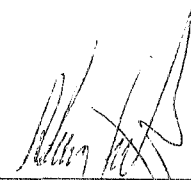
-----Asbestos-----										-----Nonasbestos-----					Run Date
Sample Number /	Sample Appearance	Client Sample Number	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Wool	Glass	Fibers	Fibers	Material	Analyst
1741152CPL	Brown soil	MKF0297-01	-	-	-	-	-	-	-	-	-	-	-	100 %	6/20/01
		01 ROSSOI												NFM: Qtz, Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains ACF Homogeneous	
1741153CPL	Brown soil	MKF0297-02	-	-	-	-	-	-	-	-	-	-	-	100 %	6/20/01
		01 ROSS COI												NFM: Qtz, Clay, Carb, Binder, Hbl, F-Spar, Opaq, Mica, Fine Grains, Misc. Pt ACF Homogeneous	

Samples received on: Friday, June 15, 2001

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Bay Area Lab

530 McCormick Street  
San Leandro, CA 94577  
Page: 1 of 1

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Date

Adam Fink, Geologist  
Thursday, June 21, 2001

Phone (510) 567-0480  
Fax (510) 567-0488

# Test Report - Sequoia Analytical - Morgan Hill

## Polarized Light Microscopy Analysis Results

### Project AOC106262

-----Asbestos-----										-----Nonasbestos-----				
Sample Number /	Client Sample Number	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date
1741177CPL	MKF0257-01	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/20/01
Brown soil	01 Los Coches 01								NFM: Qtz, Clay, Carb, Binder, Hbl, F-Spar, Opaq, Mica, Fine Grains, Misc. Pt				ACF	
													Homogeneous	

1741178CPL	MKF0257-02	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/20/01
Brown soil	01 Los Coches CCO1								NFM: Qtz, Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains				ACF	
	Sample taken from wrong location												Homogeneous	

Samples received on: Friday, June 15, 2001

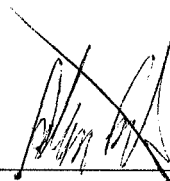
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Bay Area Lab

530 McCormick Street  
San Leandro, CA 94577

Page: 1 of 1

Authorized Signature

Date

  
Adam Fink, Geologist

Thursday, June 21, 2001

Phone (510) 567-0480  
Fax (510) 567-0488



# Test Report - Sequoia Analytical - Morgan Hill

## Polarized Light Microscopy Analysis Results

### Project AOC106335



Sequoia Analytical

Sample Number /		-----Asbestos-----										-----Nonasbestos-----					Run	Due
Sample Appearance	Client Sample Number	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Wool	Mineral	Fibrous	Synthetic	Other	NonFibrous	Material	Analysis	Date	
1741388CPL	MKF0352-01	-	-	-	-	-	-	<1 %	-	-	-	-	-	-	99+ %	106/01		
Brown soil	01 Los Coches CCO2	NFM: Carb, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains, Misc. Part.										ACF						
																Homogeneous		

Samples received on: Wednesday, June 20, 2001

Authorized Signature

Adam Fink, Geologist

Date

Wednesday, June 27, 2001

Phone (510) 567-0480

Fax (510) 567-0488

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Bay Area Lab

530 McCormick Street  
San Leandro, CA 94577

Page: 1 of 1

885 Jarvis Drive  
 Morgan Hill, CA 95037  
 (408) 776-9600  
 FAX (408) 782-6308  
 www.sequoialabs.com

# Test Report - Sequoia Analytical - Morgan Hill

## Polarized Light Microscopy Analysis Results

### Project AOC106176

-----Asbestos-----										-----Nonasbestos-----						
Sample Number /	Sample Appearance	Client Sample Number	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date	Analyst
1741081CPL	Brown soil	MKF0089-01	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/12/01	SSY
		01 mataadero 01							NFM: Qtz, Clay, Carb, Binder, Opaq, Fine Grains, Misc. Part.					Homogeneous		
1741082CPL	Brown soil	MKF0089-02	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/12/01	SSY
		01 mataadero C01							NFM: Qtz, Clay, Carb, Binder, Opaq, Fine Grains, Misc. Part.					Homogeneous		
1741083CPL	Brown soil	MKF0089-04	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/12/01	SSY
		01 Duplicate 03							NFM: Qtz, Clay, Carb, Binder, Opaq, Fine Grains, Misc. Part.					Homogeneous		

Samples received on: Tuesday, June 12, 2001

Authorized Signature



Adam Fink, Geologist

Date

Monday, June 18, 2001

RJ Lee Group, Inc.  
Bay Area Lab

530 McCormick Street  
San Leandro, CA 94577

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Fax (510) 567-0488

# Test Report - Sequoia Analytical - Morgan Hill

## Polarized Light Microscopy Analysis Results

Project AOC106263

-----Asbestos-----

-----Nonasbestos-----

Sample Number / Sample Appearance	Client Sample Number	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date
1741175CPL Black soil	MKF0273-01 01 Randol 01	-	-	-	-	-	-	4 %	-	-	-	-	96 %	6/20/01
NFM: Qtz, Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains ACF Homogeneous														
1741176CPL Black soil	MKF0273-02 01 Randol 001	-	-	-	-	-	-	4 %	-	-	-	-	96 %	6/20/01
NFM: Qtz, Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains ACF Homogeneous														

Samples received on: Friday, June 15, 2001

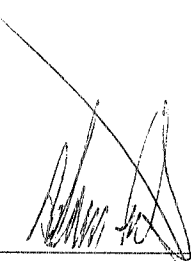
RJ Lee Group, Inc.  
Bay Area Lab

530 McCormick Street  
San Leandro, CA 94577

Page: 1 of 1

Authorized Signature

Date

  
Adam Fink, Geologist

Thursday, June 21, 2001

Phone (510) 567-0480

Fax (510) 567-0488

# Test Report - Sequoia Analytical - Morgan Hill

## Polarized Light Microscopy Analysis Results

### Project AOC106252

-----Asbestos-----

-----Nonasbestos-----

Sample Number /	Client Sample Number	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Wool	Glass	Fibers	Fibers	Material	Analyst	Run Date
1741150CPL	MKF0271-01	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/20/01	
Brown soil	01 Rucker 01	NFM: Qtz, Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains ACF													
															Homogeneous

1741151CPL MKF0271-02  
01 Rucker 01

Sample Location Sample Not Analyzed - Container Broken

Samples received on: Friday, June 15, 2001

Authorized Signature



Adam Pink, Geologist

Date

Thursday, June 21, 2001

Phone (510) 567-0480  
Fax (510) 567-0488

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Bay Area Lab

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San Leandro, CA 94577

Page: 1 of 1

# Test Report - Sequoia Analytical - Morgan Hill

## Polarized Light Microscopy Analysis Results

Project AOC106253

-----Asbestos-----

-----Nonasbestos-----

Sample Number / Sample Appearance	Client Sample Number	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Wool	Mineral	Fibrous	Synthetic	Other	NonFibrous	Run Date
1741147CPL grey soil	MKF0298-01 01 Sierra 01	-	-	-	-	-	-	-	-	-	-	-	-	-	100 % 6/20/01
										NFM: Qtz, Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains ACF					Homogeneous
1741148CPL grey soil	MKF0298-02 01 Sierra-CC01	-	-	-	-	-	-	-	-	-	-	-	-	-	100 % 6/20/01
										NFM: Qtz, Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains ACF					Homogeneous
1741149CPL grey soil	MKF0298-04 01 Duplicate 06	-	-	-	-	-	-	-	-	-	-	-	-	-	100 % 6/20/01
										NFM: Qtz, Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains ACF					Homogeneous

Samples received on: Friday, June 15, 2001

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San Leandro, CA 94577  
Page: 1 of 1

Authorized Signature



Date

Adam Fink, Geologist  
Thursday, June 21, 2001

Phone (510) 567-0480  
Fax (510) 567-0488